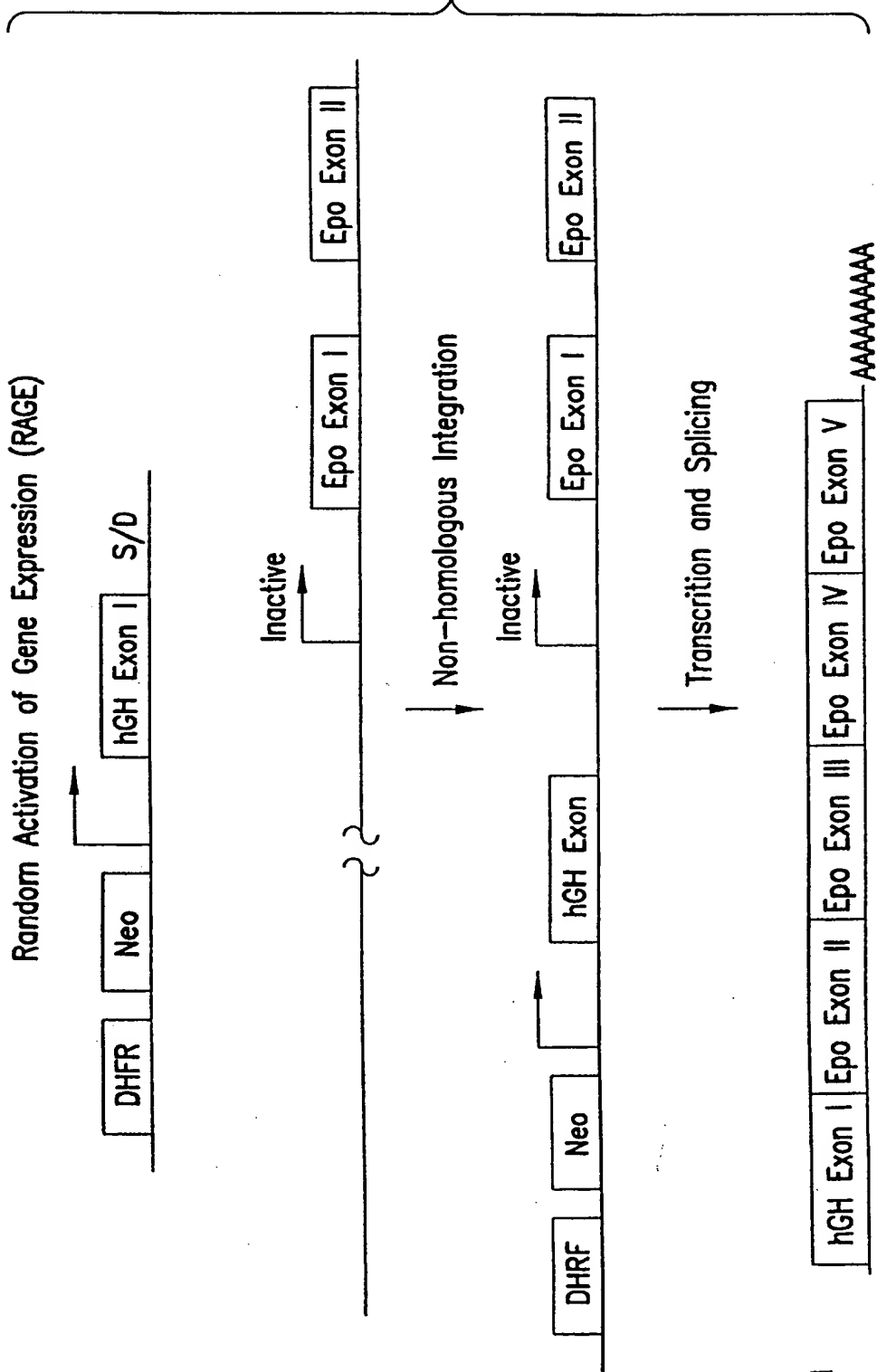
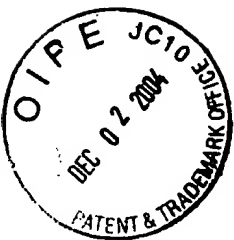


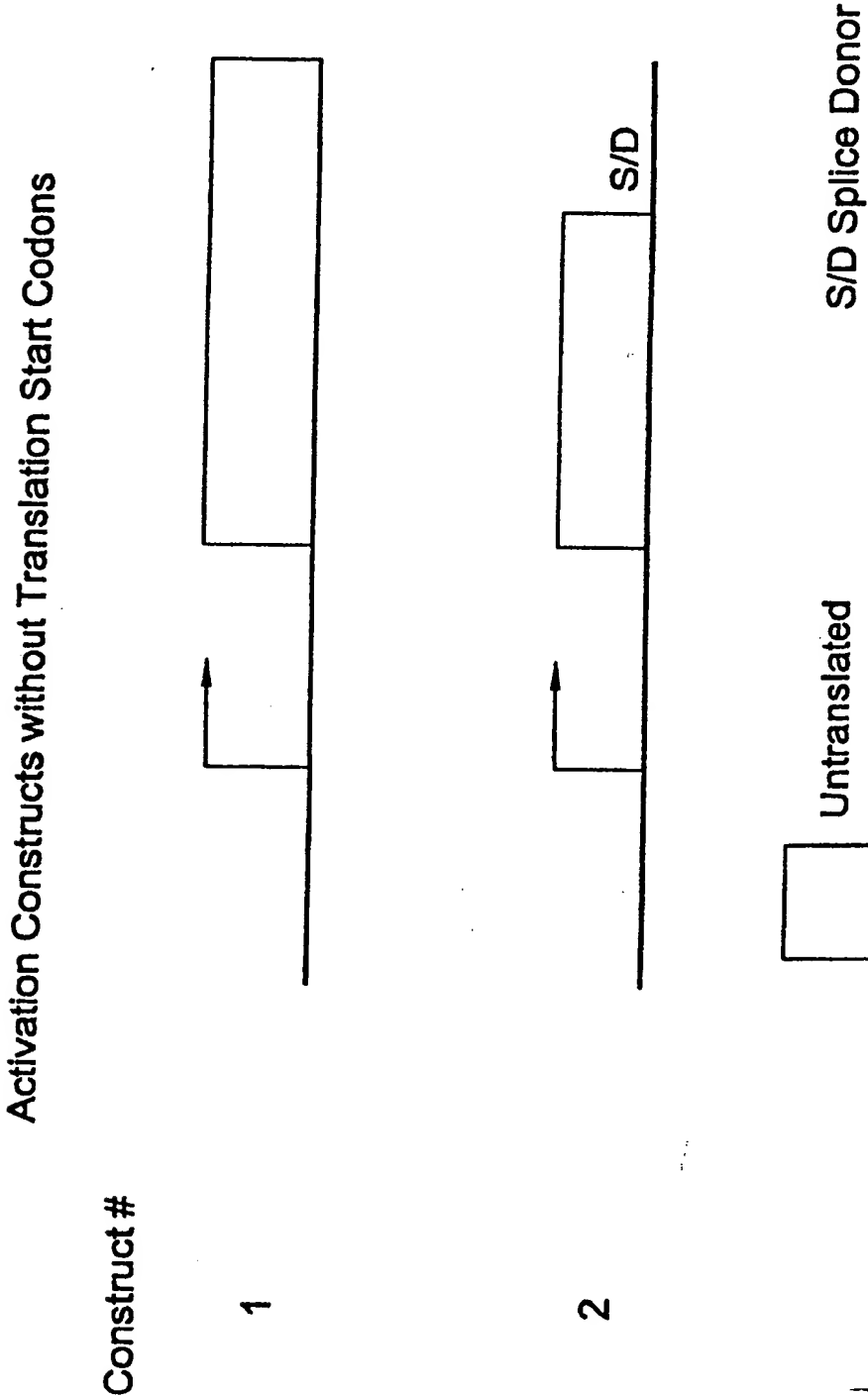
FIG. 1.

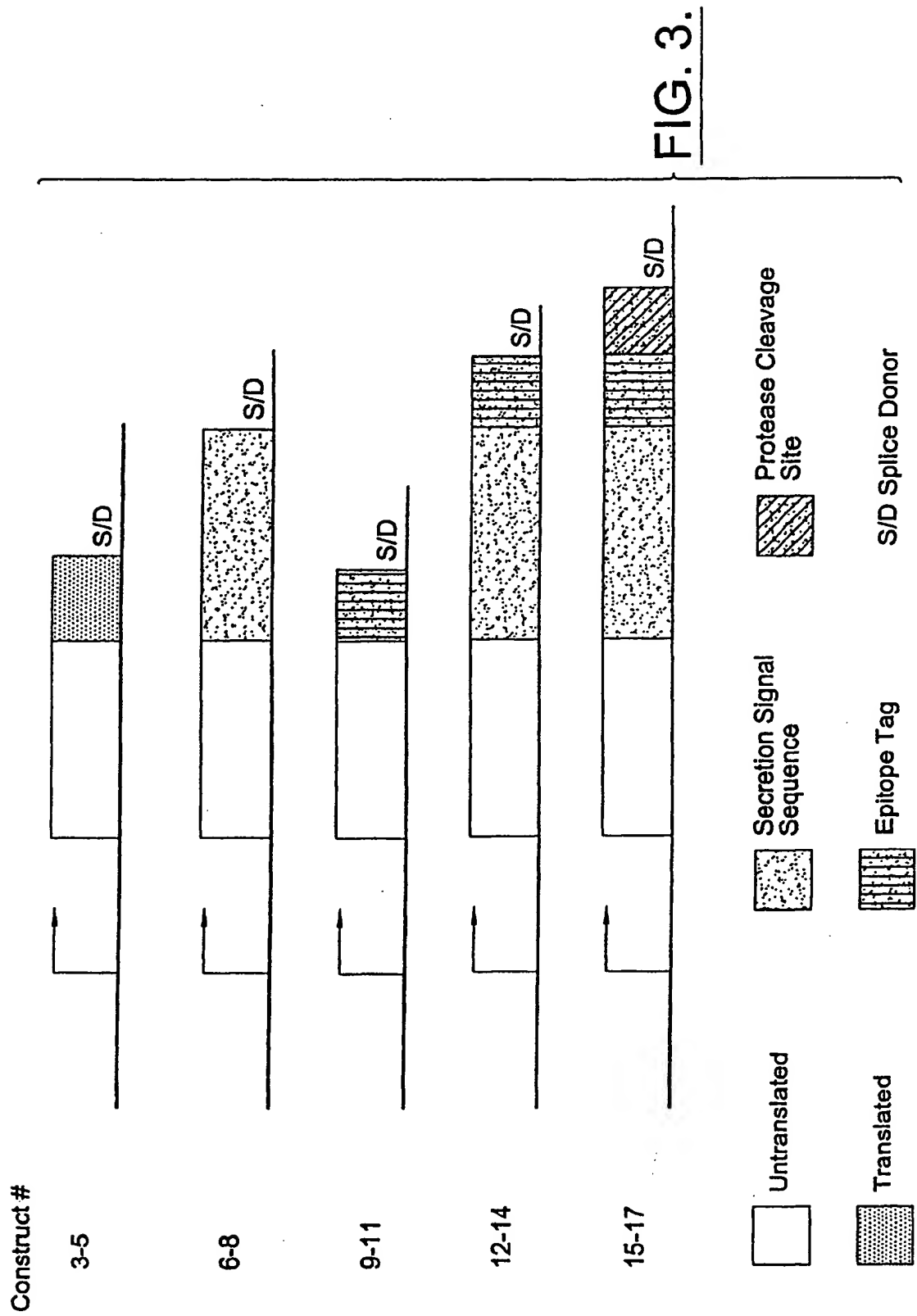
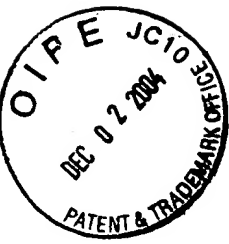


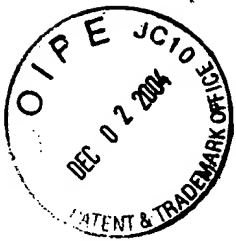


REPLACEMENT
DRAWINGS

FIG. 2.







REPLACEMENT
DRAWINGS

pRIG-1

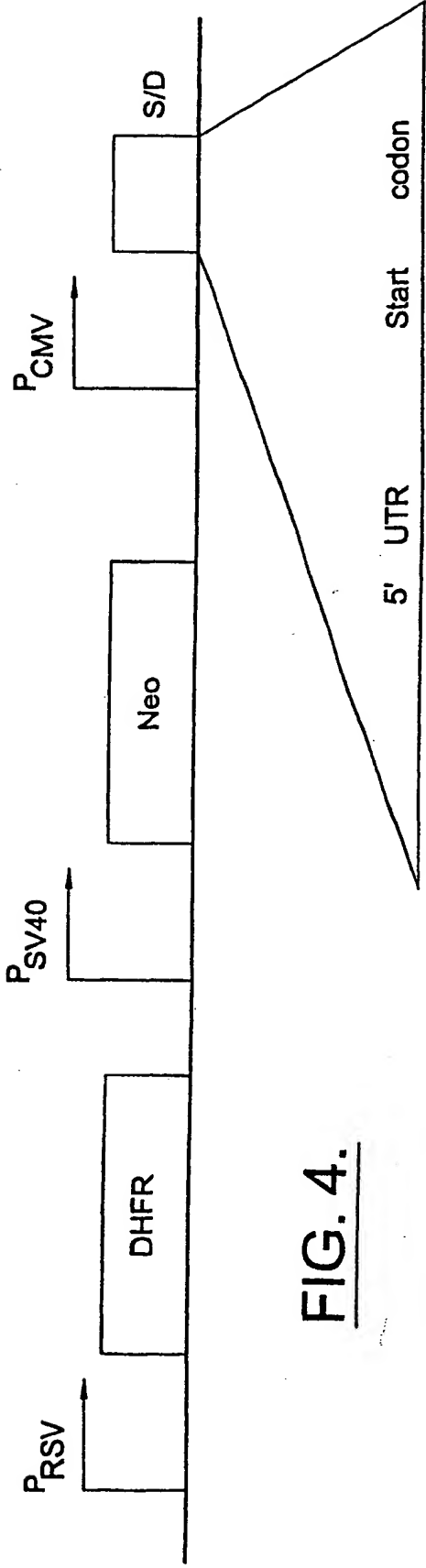
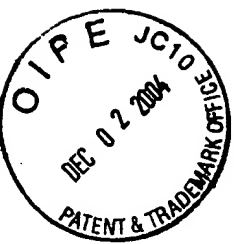


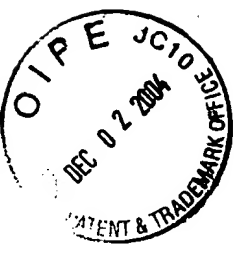
FIG. 4.



REPLACEMENT
DRAWINGS

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CCATGTTGGCATTGATTATTGACT
AGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGT
TCCGCGTTACATAACTTACGGTAAA
TGGCCCGCCTGGCTGACCGCCCAACGACCCCGCCCATTGACGTCAATAATGACG
TATGTTCCCATAGTAACGCCAATAG
GGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGC
AGTACATCAAGTGTATCATATGCCA
AGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCC
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GACTTTCCAAAATGTCGTAAACAACCTGCGATCGCCCGCCCCGTTGACGCAAATGGG
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CGCAGTCAGTGCTTCTGACACAACAGTCTCGAACTTAAGCTGCAGTGACTCTCTT
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GATTCAAGAGAGGGTCTCAAAACCA
AAGATCTCCTGGACTTGTATCAACACAACCCTGACCTGTGAGGTAAATGAATGGAA
CTGACCCCGAATTAAACCTGTATCA
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CGAGACAGAGAAGACTCTTGCCTTCTGATAGGCACCTATTGGTCTTACGCGGCC
GCGAATTCCAAGCTTGAGTATTCTA
TCGTGTCACCTAAATAACTTGGCGTAATCATGGTCATATCTGTTTCTGTGTGAA
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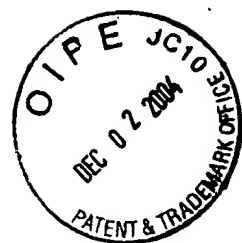
FIG. 5A.



REPLACEMENT
DRAWINGS

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GCTGATTTAACAAAAATTTAACGC
GAATTTTAACAAAATATTAACGCTTACAATTCGCCTGTGTACCTTCTGAGGCGG
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GTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCT
CAATTAGTCAGCAACCATAGTCCCGC
CCCTAACTCCGCCCATCCCGCCCTAACTCCGCCAGTTCCGCCATTCTCCGCC
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TATGCAGAGGCCGAGGCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGA
GGCTTTTTTGGAGGCCTAGGCTTTTG
CAAAAAGCTTGATTCTTCTGACACAACAGTCTCGAACTTAAGGCTAGAGCCACCA
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AGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGGCTATGACTGGGCACAACAC
ACAATCGGCTGCTCTGATGCCGCCG
TGTTCGGGCTGTCAGCGCAGGGGCGCCCGGTCTTTTTTGCAAGACCGACCTGTC
CGGTGCCCTGAATGAACTGCAGGAC
GAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCTTGCGCAGCTGTG
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GGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTT
GCTCCTGCCGAGAAAGTATCCATCA
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CCATGGCGATGCCTGCTTGCCGAATA
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TTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCC
TCGTGCTTTACGGTATCGCCGCTCC
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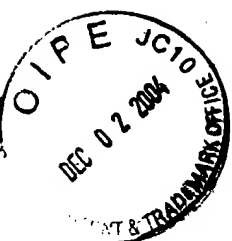
FIG. 5B.



REPLACEMENT
DRAWINGS

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TGTGACCGTCTCCGGGAGCTGCATG
TGTCAGAGGTTTTACCGTCATCACCAGAACGCGCGAGACGAAAGGGCCTCGTGA
TACGCTATTTTTATAGGTTAATGT
CATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGC
GGAACCCCTATTTGTTTATTTTTCT
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AGTATTCAACATTTCCGTGTGCGCCTTATTCCTTTTTTGCGGCATTTTGCTTCC
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GGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGA
ACTGGATCTCAACAGCGGTAAGATCC
TTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCT
GCTATGTGGCGCGGTATTATCCCGT
ATTGACGCCGGGCAAGAGCAACTCGGTGCGCGCATACACTATTCTCAGAATGACT
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CGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACG
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FIG. 5C.

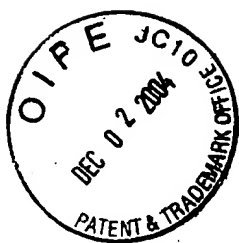


REPLACEMENT
DRAWINGS

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TTGCTGGCCTTTTGCTCACATGGCT
CGAC3'

FIG. 5D.

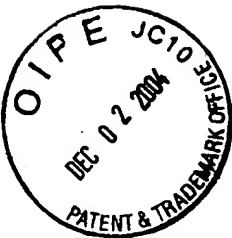
REPLACEMENT DRAWINGS



REPLACEMENT
DRAWINGS

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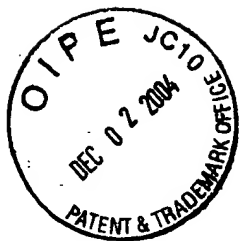
FIG. 6B.



REPLACEMENT
DRAWINGS

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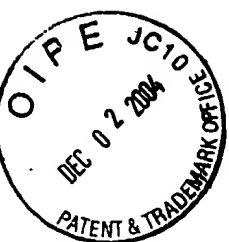
FIG. 6C.



REPLACEMENT
DRAWINGS

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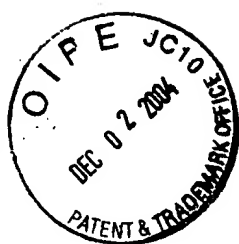
FIG. 7A.



REPLACEMENT
DRAWINGS

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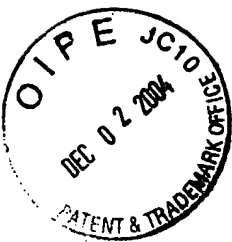
FIG. 7B.



REPLACEMENT
DRAWINGS

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FIG. 7C.



REPLACEMENT
DRAWINGS

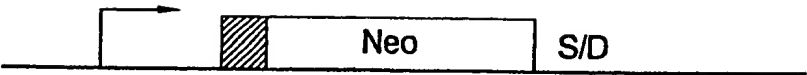


FIG. 8A.

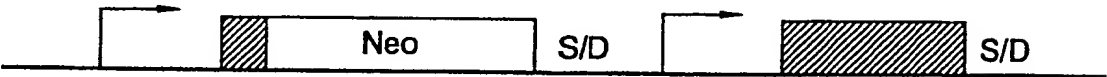


FIG. 8B.

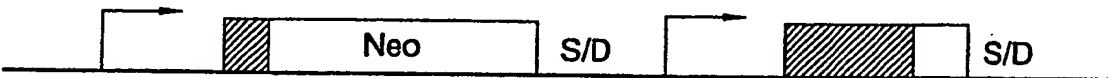


FIG. 8C.

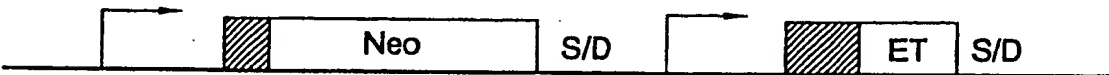


FIG. 8D.

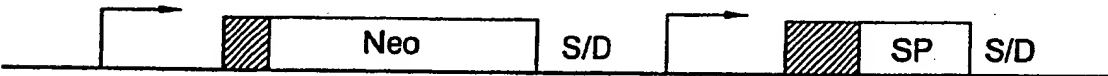


FIG. 8E.

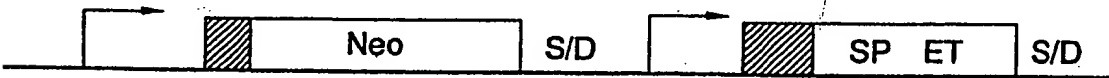


FIG. 8F.

FIG. 9A.



FIG. 9B.



FIG. 9C.

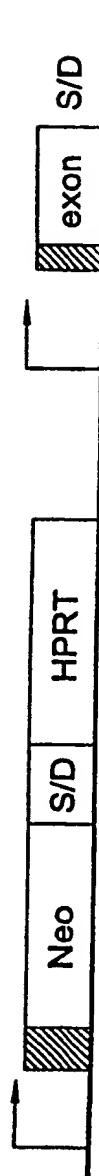


FIG. 9D.

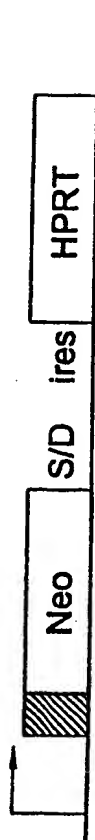
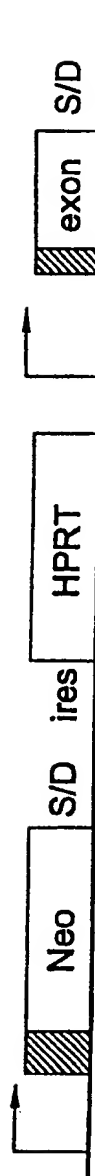
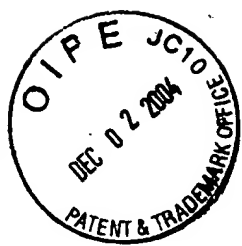


FIG. 9E.

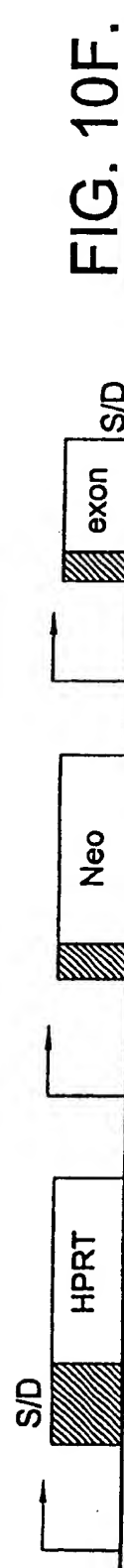
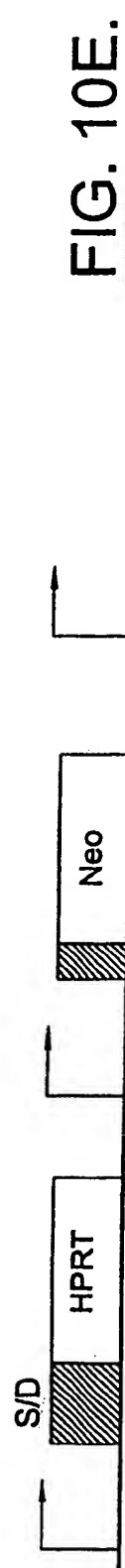
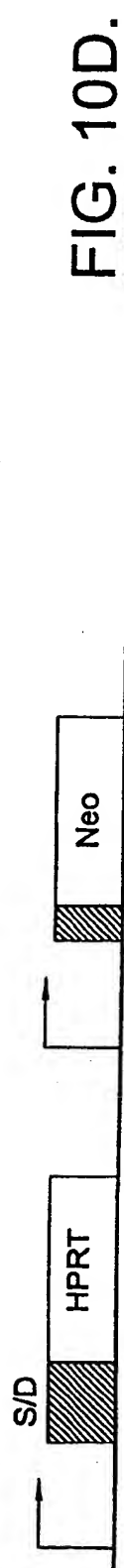
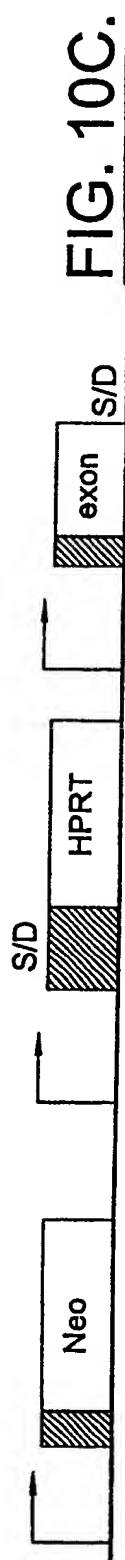
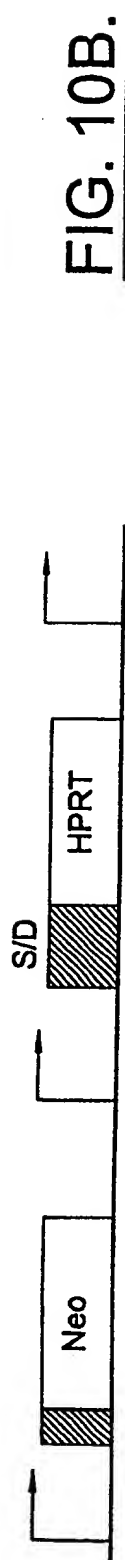


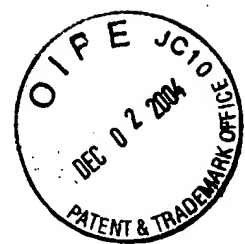
FIG. 9F.





REPLACEMENT
DRAWINGS





REPLACEMENT
DRAWINGS

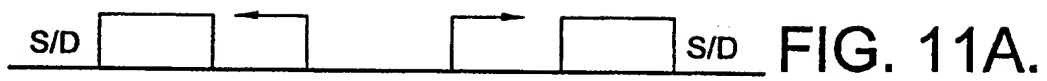


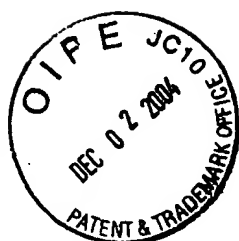
FIG. 11A.



FIG. 11B.



FIG. 11C.



REPLACEMENT
DRAWINGS



FIG. 12A.

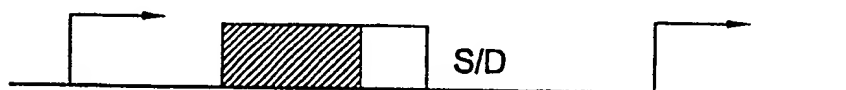


FIG. 12B.



FIG. 12C.

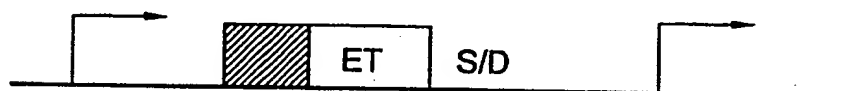


FIG. 12D.



FIG. 12E.

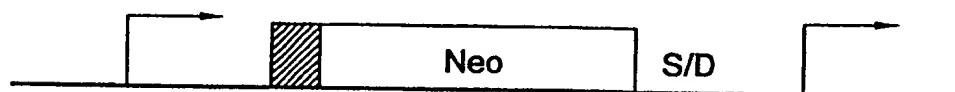


FIG. 12F.

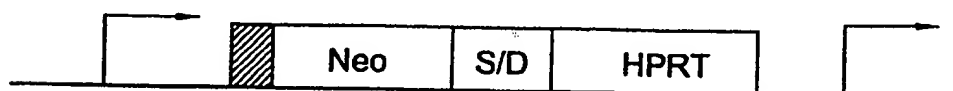
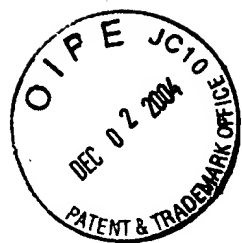


FIG. 12G.



REPLACEMENT
DRAWINGS

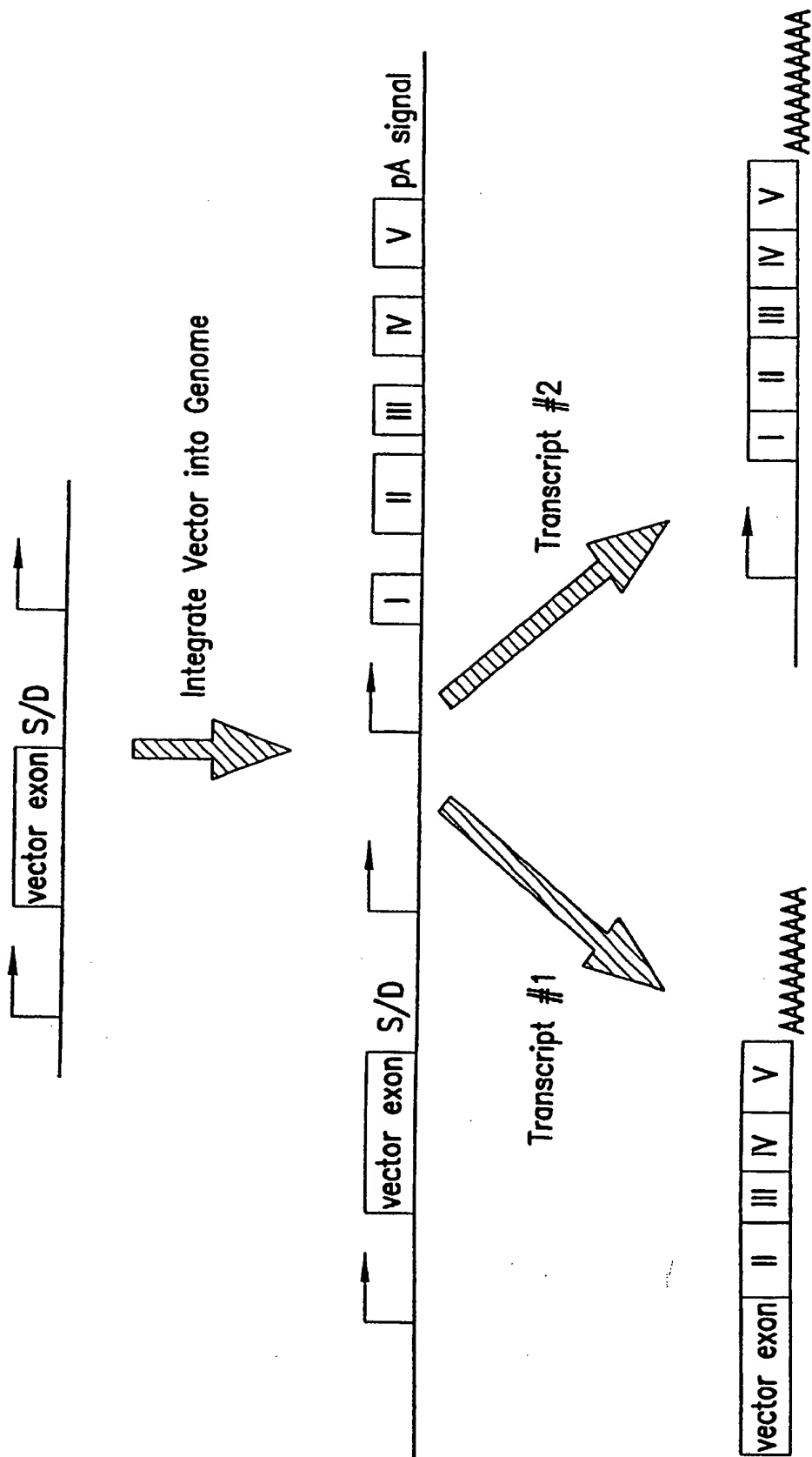
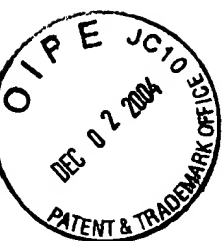


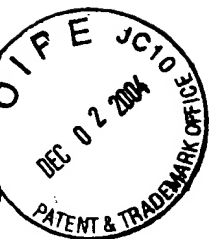
FIG. 13.



REPLACEMENT
DRAWINGS

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FIG. 14A.

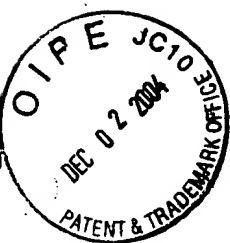


REPLACEMENT
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FIG. 14B.

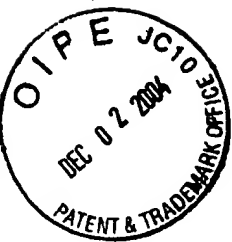
REPLACEMENT DRAWINGS



REPLACEMENT
DRAWINGS

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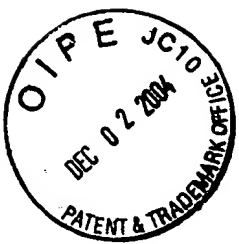
FIG. 15B.



REPLACEMENT
DRAWINGS

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AGTTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCCGCTGGCTG
ACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT
AGGGACTTTCATTGACGTCAATGGGTGGAGTATTACGGTAAACTGCCACATTGGCAGTACA
TCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCCCCGCTG
GCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGT
CATCGCTATTACCATGGTGATGCGGGTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTTGA
CTCACGGGGATTTCCTAAGTCTCCACCCCATGACGTCAATGGGAGTTTTGTTTTGGCACCAAAA
TCAACGGGACTTTCCTAAGTCTCCACCCCATGACGTCAATGGGAGTTTTGTTTTGGCACCAAAA
CGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTtagtgaacgtCAGATCACTAGAA
GCTTTATTGCGGTAGTTTTATCACAGTTAAATGCTAACGCAGTCAGTGCTTCTGACACAACAG
TCTCGAAGCTTAAGCTGCAGTGACTCTCTTAATccaccaagctacagGTGAGTACTCGTACCTTAAG
AGAGGCCTATCTGGCCAGTTAGCAGTCGAAGAAAGAGTTTAAAGAGAGCCGAAACAAGCGCT
CATGAGCCCGAAGTGGCGAGCCCGATCTTCCCATCGGTGATGTCGGCGATATAGGCGCCAG
CAACCGCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGG
ACGGGTGTGGTCCGCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGAC
TGGGCGGCGGCCAAAGCGGTCCGACAGTGTCCGAGAACGGGTGCGCATAGAAATTGCATCA
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CCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATA
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TACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTGGCGCTTCTCATAGCTCACGCTGT
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GAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCA
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CCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCCTCGGCCTCTGAG
CTATTCCAGAAGTAGTAGGAGGCTTTTTTGGAGGCCCTAGGCTTTTGCAAAAAGCTTGATCTCT
TCTGACACAACAGTCTCGAAGCTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGAC
GCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGGCTATGACTGGGCACAACAGACAAT
CGGCTGCTCTGATGCCGCCGCTGTTCCGGCTGTGAGCGCAGGGGGCGCCGGTTCTTTTTGTCAA
GACCGACCTGTCCGGTGCCTGAATGAAGTGCAGGACGAGGCAGCGCGCTATCGTGGCTGG
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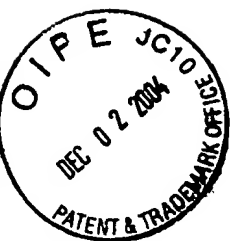
FIG. 16A.



REPLACEMENT
DRAWINGS

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TCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACCTGTTCCGCCAGGCTCA
AGGCGCGCATGCCCCGACGGCGAGGATCTCGTCTGTGACCCATGGCGATGCCTGCTTGCCGAAT
ATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCATCGACTGTGGCCGGCTGGGTGTGGCGGAC
CGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGC
TGACCGCTTCCCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGACGCGCATCGCCTTCTATCGC
CTTCTTGACGAGCCATTCTGCTGGATGGCTACAGGTGCGAGCCCTGGCGTCTGATAGTGAATGAAGCAGGTTATGACCTGATTTA
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ATGGGAGGCACTCATTTGTAGCCCTCTGTGCTCAAGGGGGCTATAAATTTCTGCTGACCTGCTGGATTACAACAGGACTGAATAGAAATAGTGA
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ACTGGAAAGATGCTTGTATTTGGAAAGATATAAATGACACTGGCAAAACAATGAGACTTTCTTTCTTGGTCAGGAGTATAATCCAAGATGGTCAAGG
TCGCAAGCTTCTGCTGAAAGGACCCACGAAGTTGGAATAAGCCAGACTTTGTGGAATTTGAAATTCAGACAGCTTTGTGTAGGAATATGCTCTGA
CTATAAGAAATTAATTCAGGATTTGAATCATGTTGTGCTATTAGTGAAGCTGGAAAGCAAAATACAAAGCTAAACCGGCCGCTAACCTGGT
TGCTGACTAATTGAGATGCAATGCTTTGCATACCTCTGCTGCTGGGGAGCCTGGGGACTTTCC
ACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCTCAGAAGGTACACAGGCGAAA
TTGTAAGCGTTAATATTTTGTAAATTCGCGTTAAATTTTGTAAATCATGCTCATTTTTTAA
CCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGA
GTGTTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGG
CGAAAAACCGTCTATCAGGGCGATGGCCAC

FIG. 16B.



REPLACEMENT
DRAWINGS



FIG. 17A.



FIG. 17B.



FIG. 17C.

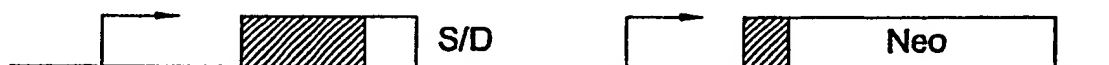


FIG. 17D.



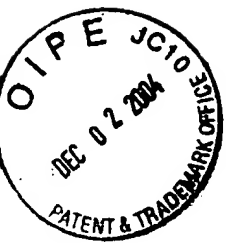
FIG. 17E.



FIG. 17F.



FIG. 17G.



REPLACEMENT
DRAWINGS

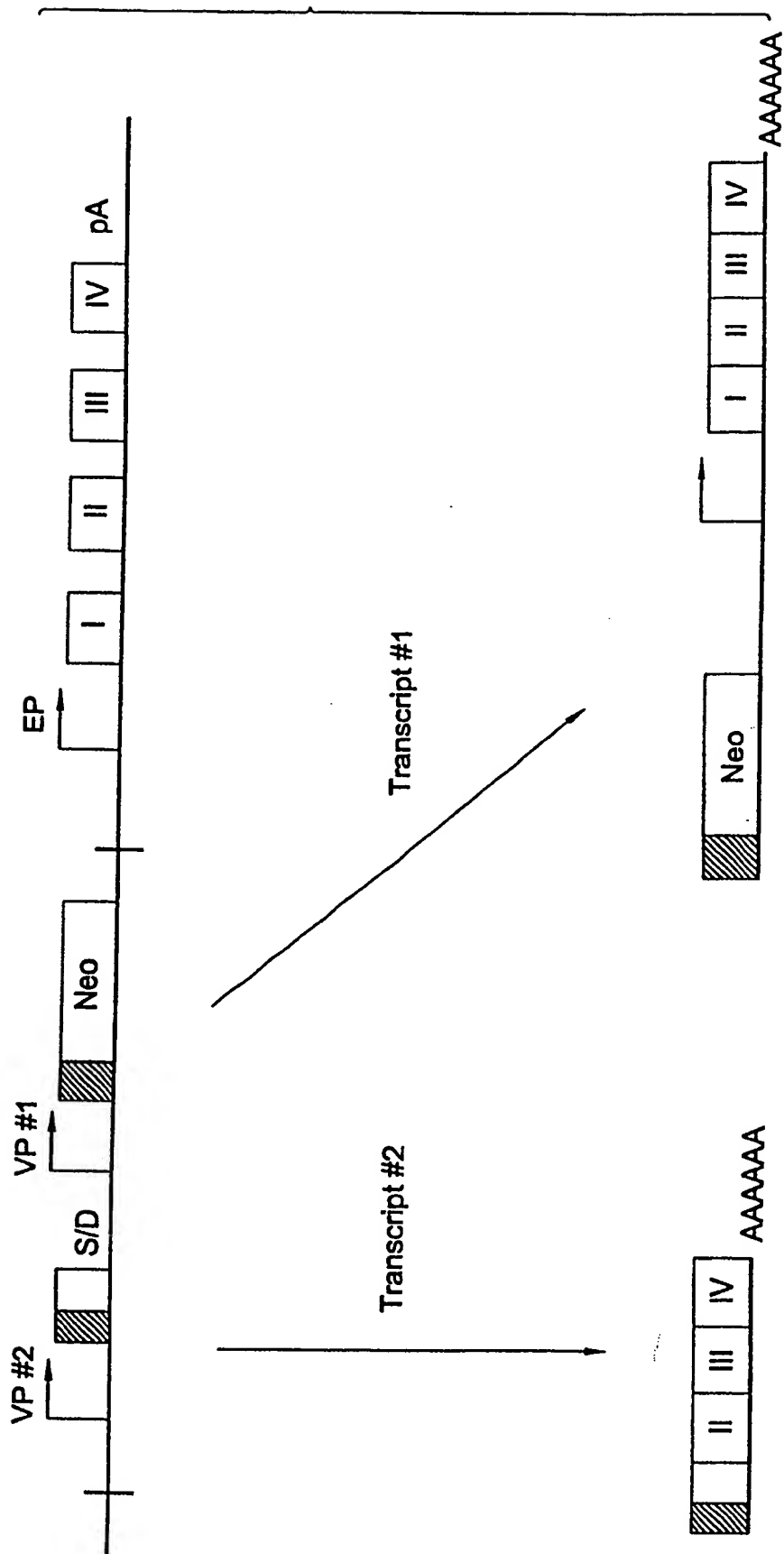


FIG. 18.

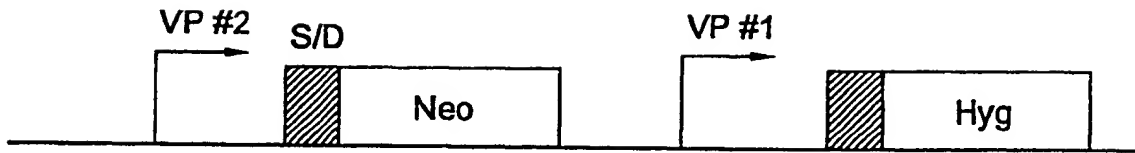
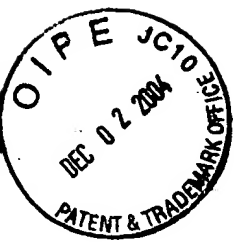
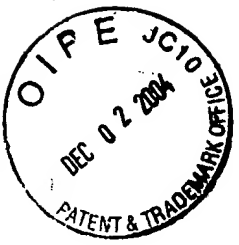


FIG. 19.



REPLACEMENT
DRAWINGS

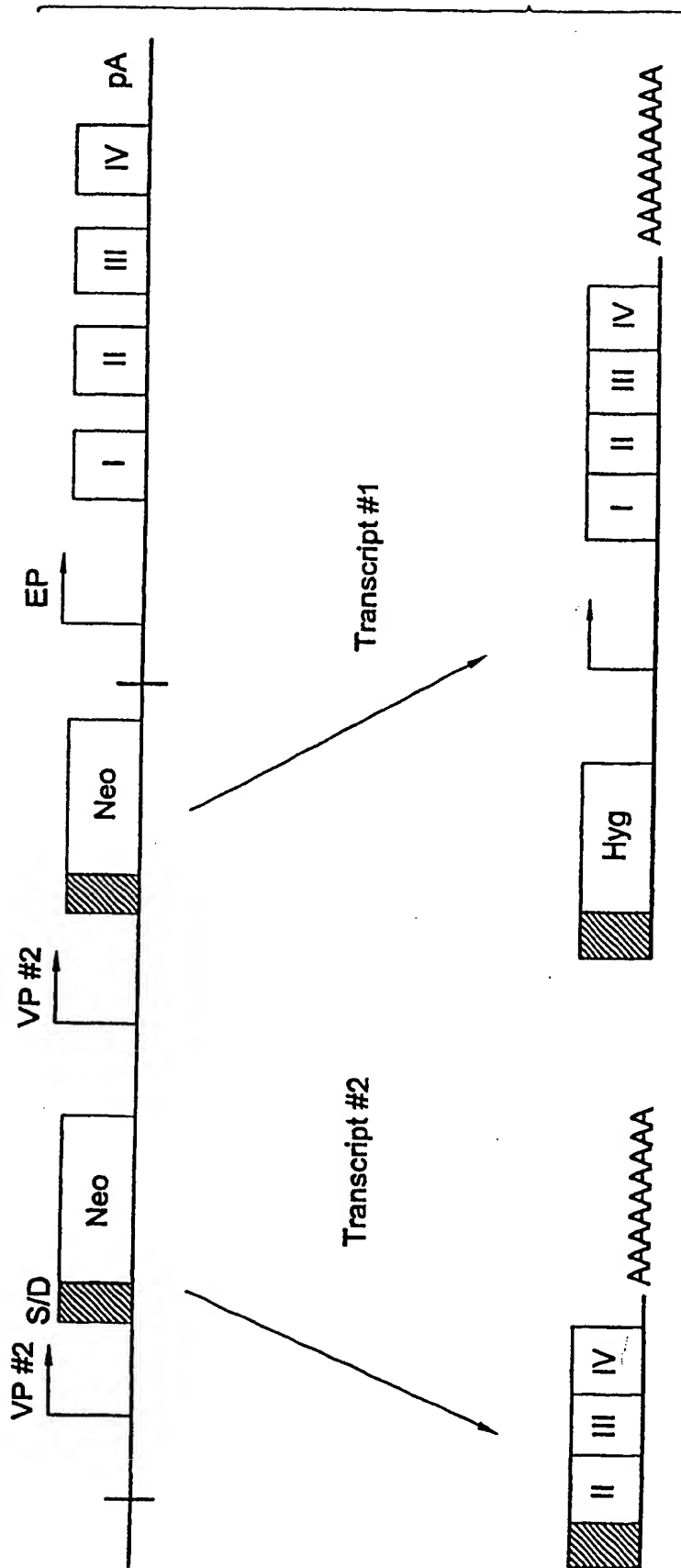
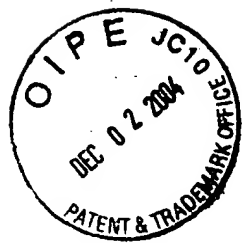
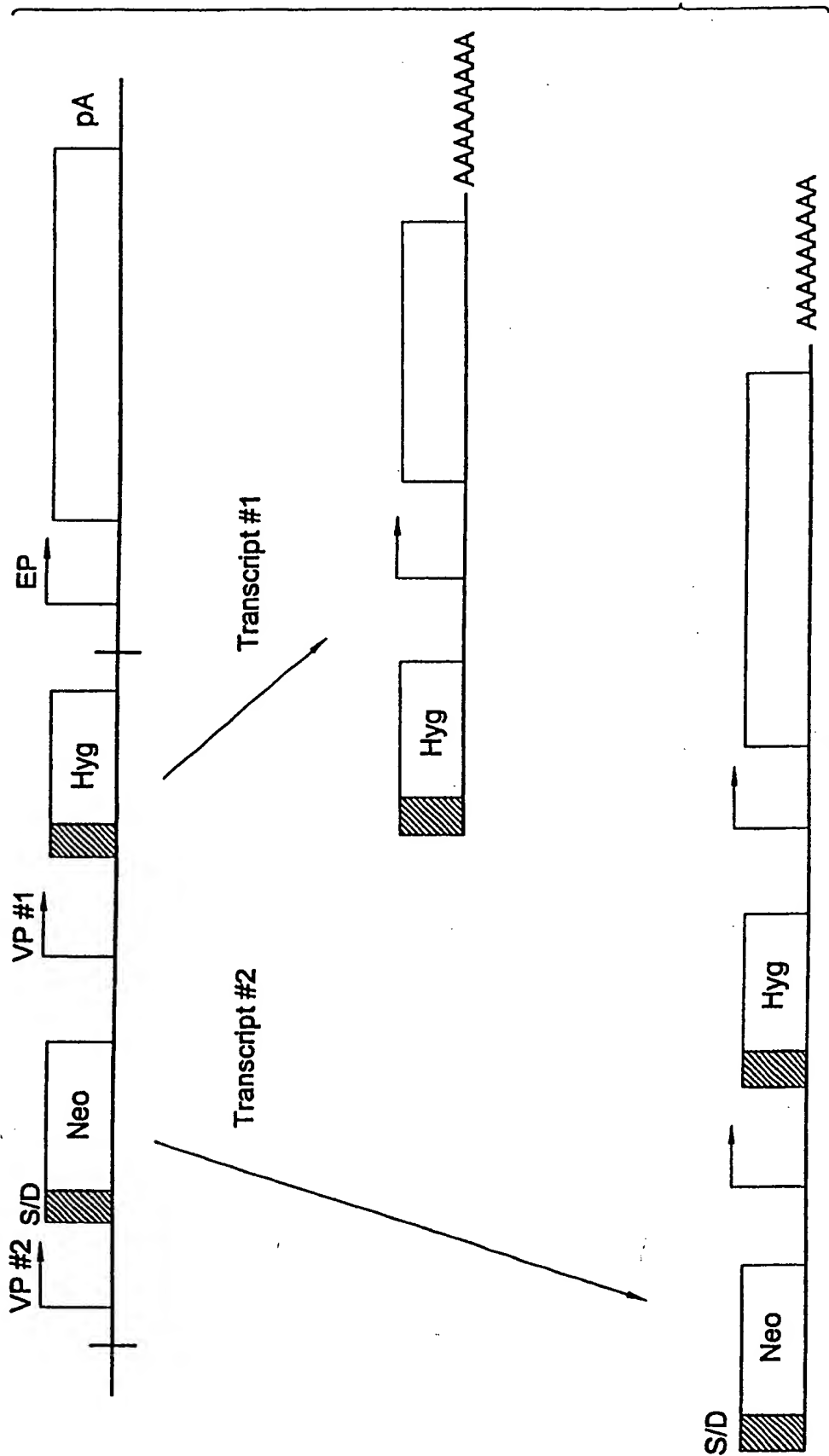


FIG. 20A.



REPLACEMENT
DRAWINGS



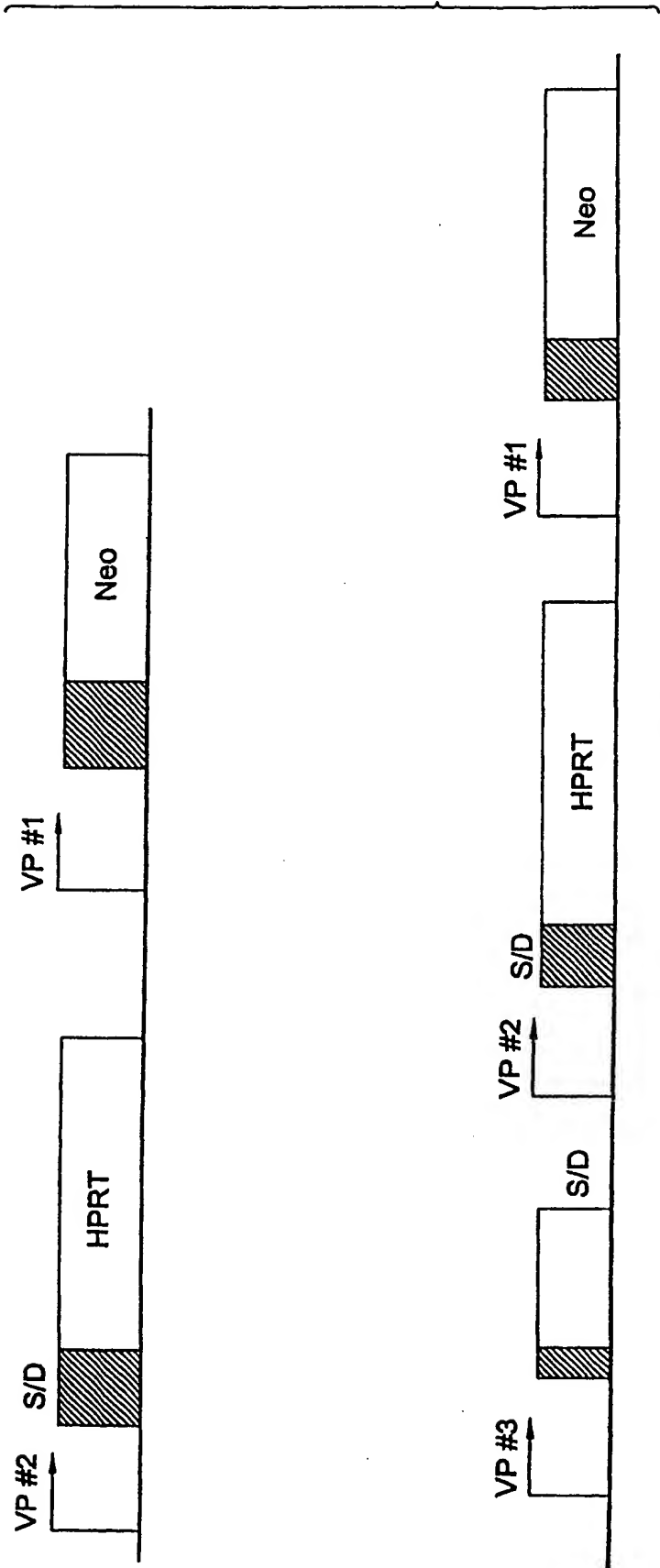
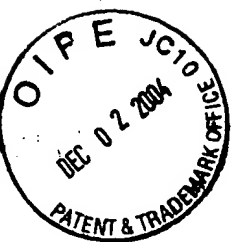
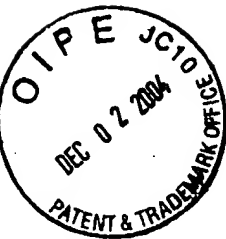


FIG. 21.



REPLACEMENT
DRAWINGS

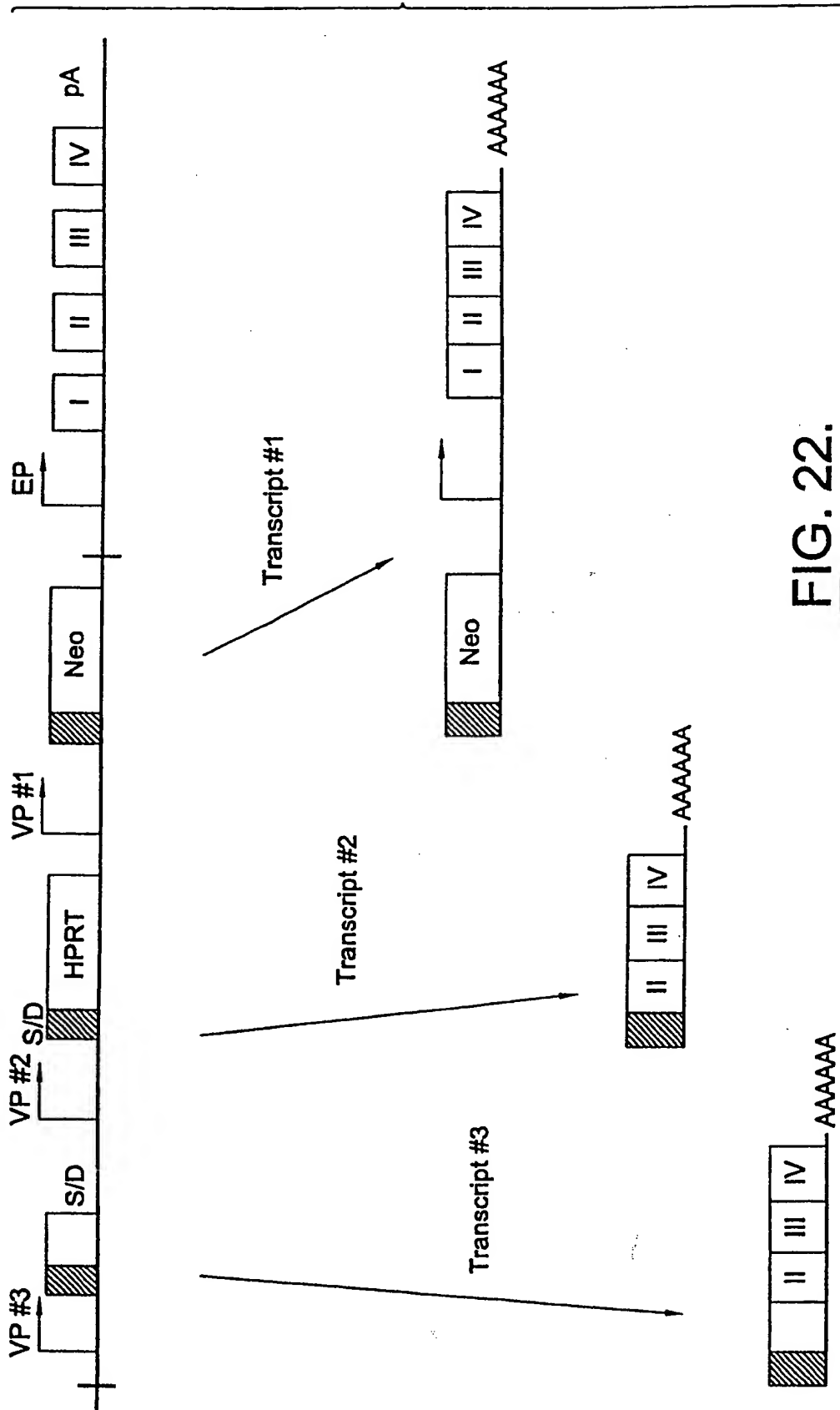
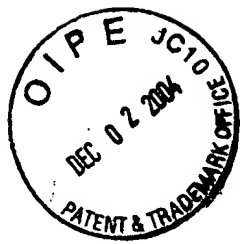
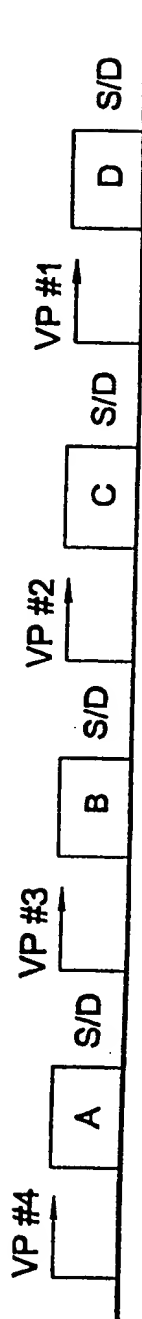


FIG. 22.



REPLACEMENT
DRAWINGS



Exon A and Flanking Intron

5' UTR	ACCCAGGTGATG	Vector intron
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FIG. 23A.

Exon B and Flanking Intron

5' UTR	ACCATGCAGGTGATG	Vector intron
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FIG. 23B.

Exon C and Flanking Intron

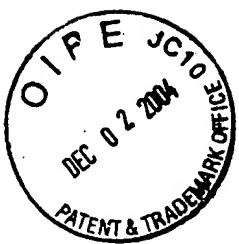
5' UTR	ACCATGGCAGGTGATG	Vector intron
--------	------------------	---------------

FIG. 23C.

Exon D and Flanking Intron

5' UTR	ACCATGGCAGGTGATG	Vector intron
--------	------------------	---------------

FIG. 23D.



REPLACEMENT
DRAWINGS

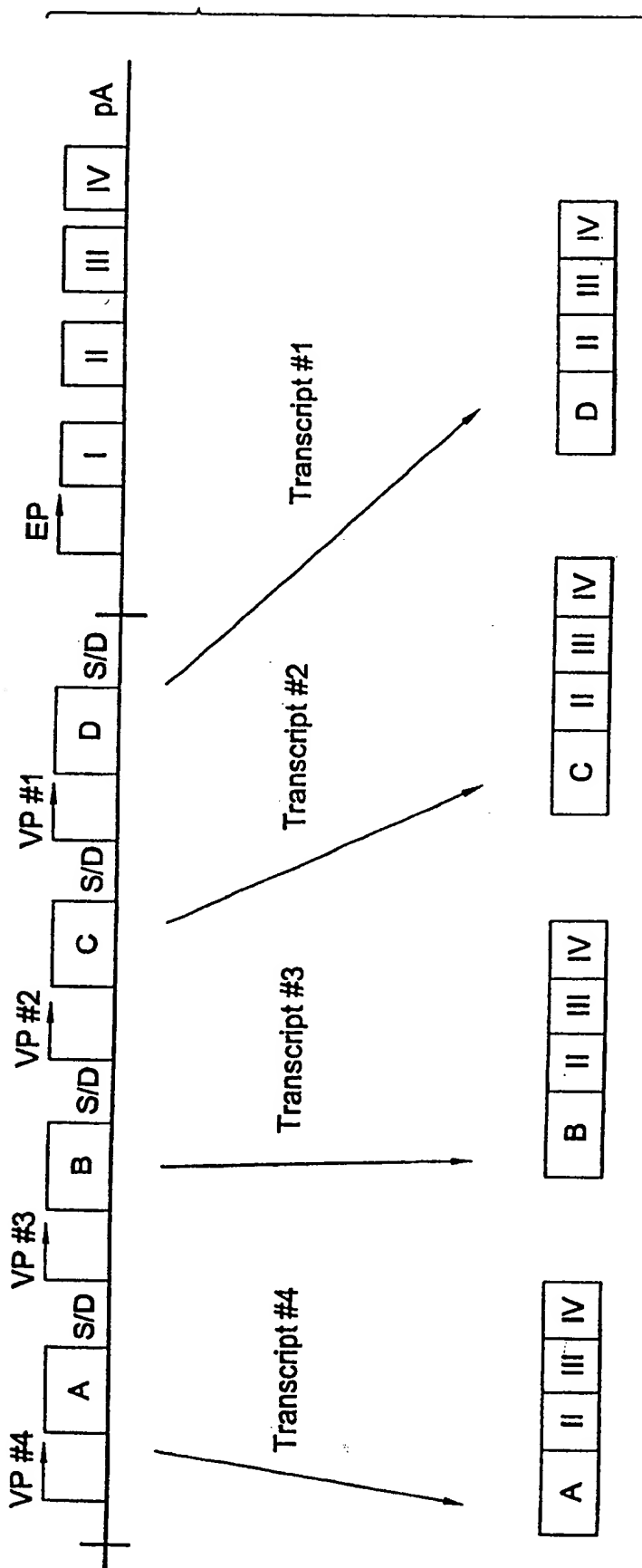
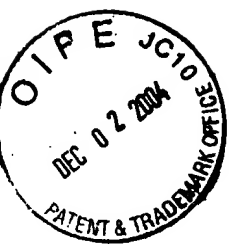


FIG. 24.



REPLACEMENT
DRAWINGS



FIG. 25A.



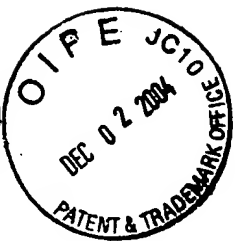
FIG. 25B.



FIG. 25C.



FIG. 25D.



REPLACEMENT
DRAWINGS

Gene A



FIG. 26.

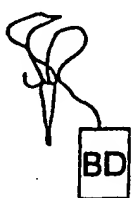
Gene B



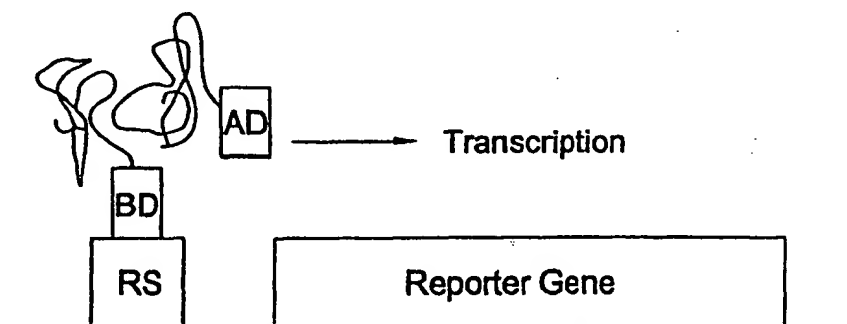
Transcription and Splicing

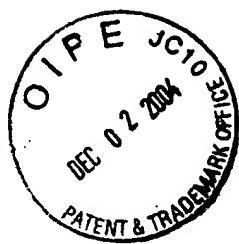


Translation



Detection of
Protein Interaction





REPLACEMENT
DRAWINGS

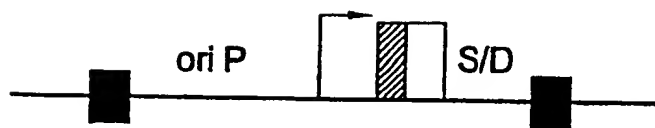


FIG. 27A.

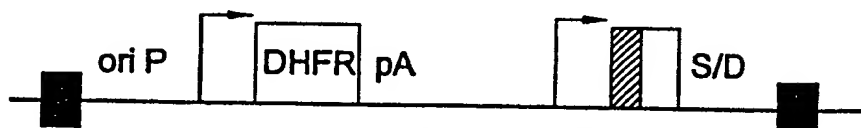


FIG. 27B.

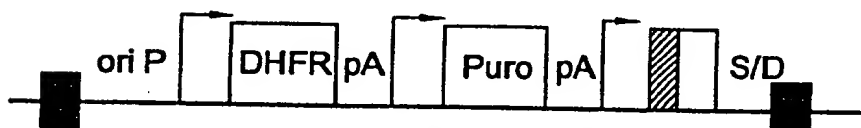


FIG. 27C.

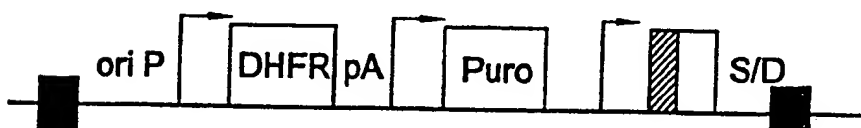


FIG. 27D.

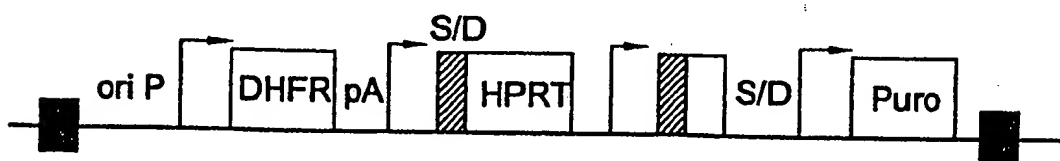


FIG. 27E.

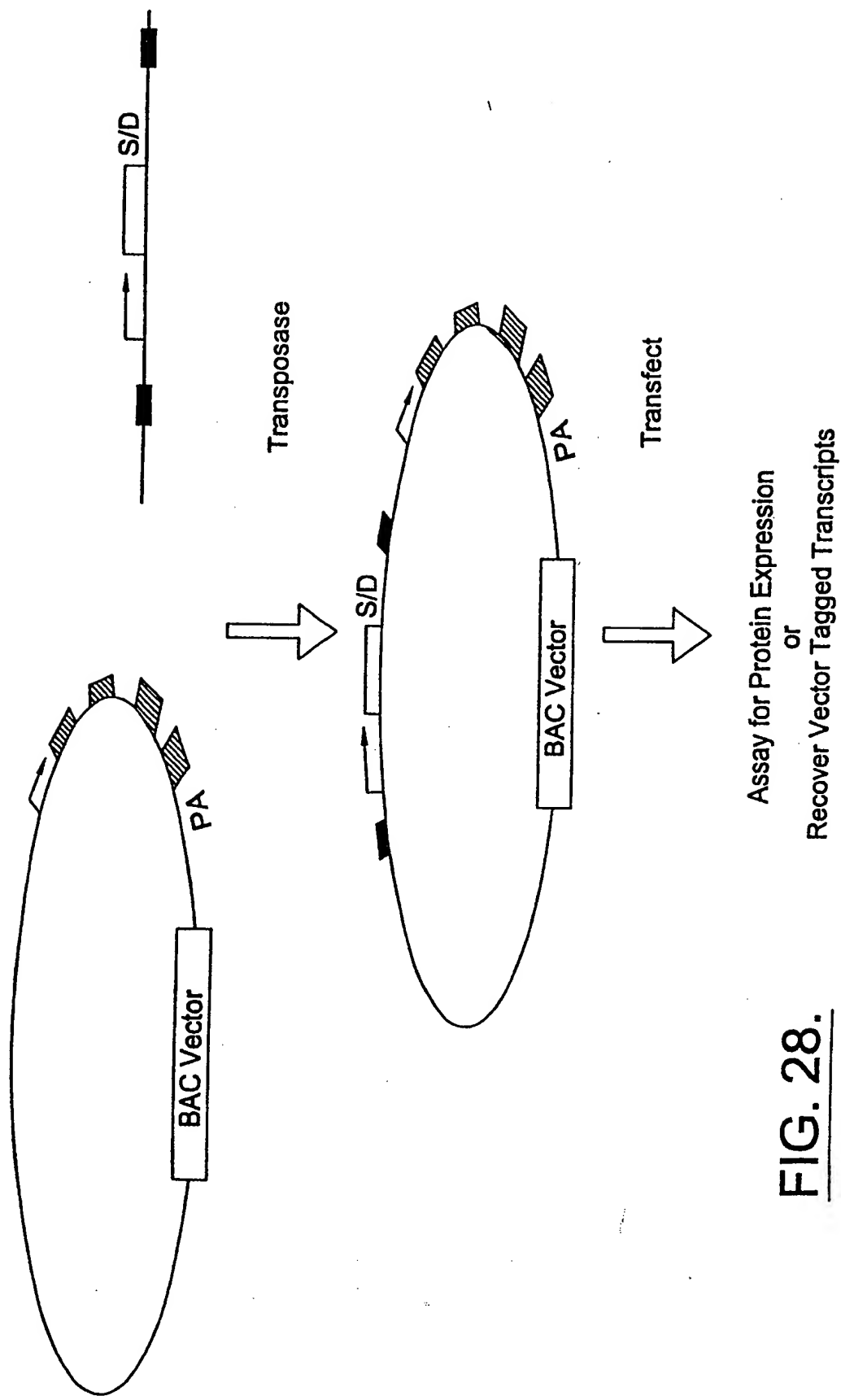
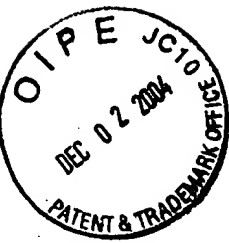


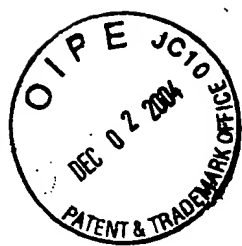
FIG. 28.



REPLACEMENT
DRAWINGS

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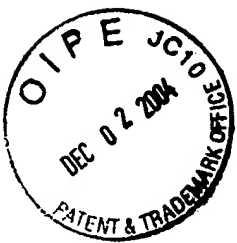
FIG. 29A.



REPLACEMENT
DRAWINGS

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ATGGAGTTCGCGGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG
CCCAACGACCCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCATTGACGTCAATGGGTGGAGTATTTACGGTAA
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ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCAGTACATG
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ATTACCATGGTGATGCGGTTTTTGGCAGTACACCAATGGGCGTGGATAGCG
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TTTGT TTTGGCACCAAAATCAACGGGACTTTCOAAAATGTCGTAACAAC TG
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GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG
ACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGAACTGTCTTAGTG
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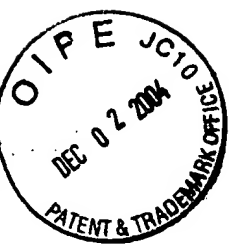
FIG. 30A.



REPLACEMENT
DRAWINGS

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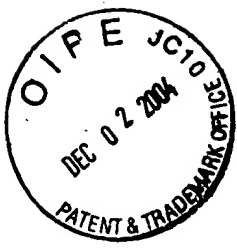
FIG. 30B.



REPLACEMENT
DRAWINGS

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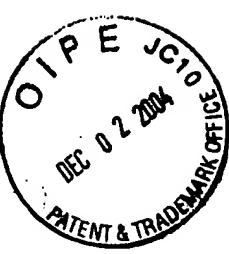
FIG. 30C.



REPLACEMENT
DRAWINGS

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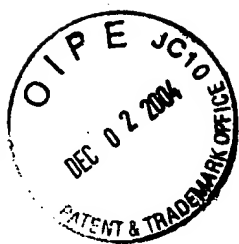
FIG. 31A.



REPLACEMENT
DRAWINGS

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g t g g a a g g g g c t g c c g c g g a g g g t g a t g a c g g a g a t g a c g g a g a t g a a g g a g g t g a t g g a g a t g a g g g t g a g g a a g
g g c a g g a g t g a t g t a a c t t g t t a g g a g a c g c c t c a a t c g t a t t a a a g c c g t g t a t t c c c c g c a c t a a a g a a t a a a t c c c
c a g t a g a c a t c a t g c g t g c t g t t g g t g t a t t t c t g g c a c t c t g t c t t g t c a c c a t t t c g t c c t c c c a c a t g g g g c a a t t g g g
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g c c a a g g g g t t t g t a g g g t t a t t t g g t g t c a t a g c a a a t g c c a c c a c t a g a c c c c c g t c c a a a t t t t a t t c t g g g g g
c g t c a c c t g a a a c c t t g t t t c g a g c a c c t c a c a t a c a c c t t a c t g t t c a c a a c t c a g c a g t t a t t c t a t t a g c t a a a c g a a g g
a g a a t g a a g a a g c a g g c g a a g a t t c a g g a g a g t t c a c t g c c c g c t c c t t g a t c t t c a g c c a c t g c c c t t g t g a c t a a a a t g
g t t c a c t a c c c t c g t g g a a t c c t g a c c c a t g t a a a t a a a c c g t g a c a g c t c a t g g g g t g g g a g a t a t c g c t g t t c c t t a g
g a c c c t t t a c t a a c c c t a a t t c g a t a g c a t a t g c t t c c c g t t g g g t a a c a t a t g c t a t t g a a t t a g g g t t a g t c t g g a t a g t a t
a t a c t a c t a c c c g g a a g c a t a t g c t a c c c g t t t a g g g t t a a c a a g g g g c c t t a a a c a c t a t t g c t a a t g c c c t c t t g a g
g g t c c g c t t a t c g g t a g c t a c a c a g g c c c c t c t g a t t g a c g t t g g t g t a g c c t c c c g t a g t c t t c c t g g g c c c t g g g a g g t
a c a t g t c c c c c a g a t t g g t g t a a g a g c t t c a g c c a a g a g t t a c a c a t a a a g g c a a t g t t g t g t g c a g t c c a c a g a c t g c a
a a g t c t g c t c a g g a t g a a a g c c a c t c a g t g t t g g c a a t g t g c a c a t c c a t t t a t a a g g a t g t c a a c t a c a g t c a g a g a a c
c c c t t g t g t t t g g t c c c c c c c g t g t c a c a t g t g g a a c a g g g c c c a g t t g g c a a g t t g t a c c a a c c a a c t g a a g g g a t t a c
a t g c a c t g c c c c g a a t a c a a a a c a a a g c g c t c c t c g t a c a g c g a a g a a g g g c a g a g a t g c c g t a g t c a g g t t t a g t t
c g t c c g g c g g c g g G C G G C C G C A A G G C G C G C C G G A T C C A C A G G A C G G G T G T G G T C
G C C A T G A T C G C G T A G T C G A T A G T G G C T C C A A G T A G C G A A G C G A G C A G G A C
T G G G C G G C G G C C A A A G C G G T C G G A C A G T G C T C C G A G A A C G G G T G C G C A T A
G A A A T T G C A T C A A C G C A T A T A G C G C T A G A T C C T T G C T A G A G T C G A G A T C T G
T C G A G C C A T G T G A G C A A A A G G C C A G C A A A A G G C C A G G A A C C G T A A A A A G G
C C G C G T T G C T G G C G T T T T T C C A T A G G C T C C G C C C C C C T G A C G A G C A T C A C A
A A A A T C G A C G C T C A A G T C A G A G G T G G C G A A A C C C G A C A G G A C T A T A A A G A
T A C C A G G C G T T T C C C C C T G G A A G C T C C C T C G T G C G C T C T C C T G T T C C G A C C
C T G C C G C T T A C C G G A T A C C T G T C C G C C T T T C T C C C T T C G G A A G C G T G G C G
C T T T C T C A T A G C T C A C G C T G T A G G T A T C T C A G T T C G G T G T A G G T C G T T C G C T
C C A A G C T G G G C T G T G T G C A C G A A C C C C C C G T T C A G C C C G A C C G C T G C G C C T
T A T C C G G T A A C T A T C G T C T T G A G T C C A A C C C G G T A A G A C A C G A C T T A T C G C
C A C T G G C A G C A G C C A C T G G T A A C A G G A T T A G C A G A G C G A G G T A T G T A G G C
G G T G C T A C A G A G T T C T T G A A G T G G T G G C C T A A C T A C G G C T A C A C T A G A A G
G A C A G T A T T T G G T A T C T G C G C T C T G C T G A A G C C A G T T A C C T T C G G A A A A A G
A G T T G G T A G C T C T T G A T C C G G C A A A C A A A C C A C C G C T G G T A G C G G T G G T T -

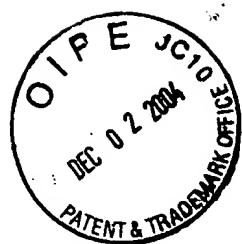
FIG. 31B.



REPLACEMENT
DRAWINGS

TTTTTGTGGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAA
TATCCTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAACTCA
CGTTAAGGGATTGTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC
CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAAATACCGCAT
CAGGAAATTGTAAGCGTTAATAATTCAAGAAGACTCGTCAAGAAGGCGAT
AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGG
AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC
AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG
AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG
CCATGGGTCACGACGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTG
GCGAACAGTTCGGCTGGCGCGAGCCCTGATGCTCTTCGTCCAGATCATCC
TGATCGACAAGACCGGCTTCCATCCGAGTACGTGCTCGCTCGATGCGATGT
TTCGCTTGGTGGTGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCG
CCGCATGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG
ATGACAGGAGATCCTGCCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTC
CCGCTTCAGTGACAACGTGAGCACAGCTGCGCAAGGAACGCCCGTCGTG
GCCAGCCACGATAGCCGCGCTGCCTCGTCTTGCAAGTTCATTACGGGCACCG
GACAGGTCGGTCTTGACAAAAAGAACC GGCGCCCTGCGCTGACAGCCG
GAACACGGCGGCATCAGAGCAGCCGATTGTCTGTTGTGCCAGTCATAGCC
GAATAGCCTCTCCACCCAAGCGGCCGAGAACCTGCGTGCAATCCATCTTG
TTCAATCATGCGAAACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCC
CCTGCGCCATCAGATCCTTGGCGGCGAGAAAGCCATCCAGTTTACTTTGCA
GGGCTTGTC AACCTTACCAGATAAAAGTGCTCATCATTGGAAAAcattcaattcgt
cgacctcgaaattctaccgggtaggggagggcgcttttcccaaggcagcttgagacatgagcttttagcagccccgctgggc
acttggcgtacacaagtggcctctggcctcgacacataccacatccaccgtaggcgccaaccggctccgttcttggg
ggccccctcgccacacttctactctccccctagtcaggaaagtcccccccgccccgcancctcgctcgtgcaggacgtg
acaaatggaaatagcagctctcactagctctcgtgcagatggacaagcaccgctgagcaatggagcgggtaggccttggg
gcagcggccaatagcagctttgctccttcgcttcttgggctcagaggttggaagggggtgggtccgggggagggtcag
gggagggtcaggggaggggcgggcgccgaaggctctccggaggcccgcatctgcacgcttcaaaagcgacgt
ctggcgctgttctctcttctcactcggggccttgcacctgcatcca tctaga tctcagcagctgaagcttaccatga
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ccgactaccggccacgcgcacacccgctgacccggaccgcacatacgaaggggtaccgagctgaagaacttctct
cacgcgctcgggctcgacatcggaagggttggttcgggacgacgagcgcggtggcggtctggaccacggcg
gagagcgtcgaagcggggcggtgttgcggagatcgcccgcgcatggccgagttgagcgggttccggctggccgc
gcagcaacagatggaaaggcctctggcgccgacccgggccaaggagcccggtgggtcttggccaccgctcgggc
gtcttcggccgacacacagggaagggtctggcaagcgcgctggtgctccccggagtggaaggcgccgagcgcgccg
gggtggccgcttcttggagaccttcgcgccccgcaacctcccccttctacgagcggctcggttccaccgtaccggcgac
gtcgagggtcccgaaaggacgcgcacctggtgcatgacccgcaagcccggtgcttgacgccccgccccacgacccgca
gcgccccgaccgaaggagcgacgaccccatgcatcgatggcactgggcaggtaagtataaaggtagcGGCCGC
TAACCTGGTTGCTGACTAATTGAGATGCATGCTTTGCATACTTCTGCCTGCT
GGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACAGCTGG
TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT
GTTAAAATTCGCGTTAAATTTTTGTAAATCAGCTCATTTTTTAACCAATAG
GCCGAAATCGGCAAAATCCCTTATAAATCAAAGAATAGACCGAGATAGG
GTTGAGTGTTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAAGAACGTGGA
CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCAC

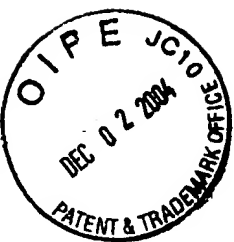
FIG. 31C.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTTCATTGGTTATATAGCATAAA
TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA
CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG
ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGGTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG
ACCTTACGGGACTTTCCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT
ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG
GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG
TTTGTTTTGGCACCAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTG
CGATCGCCCGCCCCGTTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGA
GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG
ACGACCTACTGATTAAACGGCCAGATCTAAGCTAGCGCCGCCACCATGGGCC
CTAAAAAGAAGCGTAAAGTCGCCCCCCCCGACCGATGTCAGCCTGGGGGAC
GAGCTCCACTTAGACGGCGAGGACGTGGCGATGGCGCATGCCGACGCGCT
AGACGATTTGATCTGGACATGTTGGGGGACGGGGATTCCCCGGGGCCGG
GATTTACCCCCACGACTCCGCCCCCTACGGCGCTCTGGATATGGCCGACT
TCGAGTTTGAGCAGATGTTTACCGATGCCCTTGGAAATTGACGAGTACGGTG
GGGAATTCAGGTGAGTACTCGCTACCTTAAGgcta tctggccgtttaaacaga tgtgta taag
agacagctctcttaa GGTAGCCTGTCTCTTATACACATCTaga tctt tgc tagagtgcaccaattctc
atgtttgacagcttatcatcgagatcc tga gct t gta tgg tgc ac t c tag taca at tgc t c tgc tgc cga tag ttaagcc
agtatct tgc tccc tgc t t g t g t tggagg tgc t g ag tag tgc g g a g a a a t t a a g c t a c a a a g g c a a g g c t t g a c
cg a a a t t g c a t g a a g a a t c t g c t t a g g g t t a g g c g t t t g c g c t g c t c g c g a t g a c g g g c a g a t a t a c g c g t a t c t g a
g g g g a c t a g g g t g t g t t t a g g c g c c a g c g g g c t t c g g t t g t a c g c g g t t a g g a g t c c c c t a g g a t a t a g t a g t t t c g c
t t t t g c a t a g g g a g g g g a a t g t a g t c t t a t g c a a t a c a c t t g t a g t c t t g c a a c a t g g t a a c g a t g a g t t a g c a a c a t g c c
t t a c a a g g a g a g a a a a g c a c c g t g c a t g c c g a t t g g t g g a a g t a a g g t g g t a c g a t c g t g c c t t a t t a g g a a g g c a a c a
g a c a g g t c t g a c a t g g a t t g g a c g a a c c a c t g a a t t c c g c a t t g c a g a t a a t t g t a t t a a g t g c c t a g c t c g a t a c a a t a
a a c g c c a t t t g a c c a t t c a c c a c a t t g g t g t g a c c t c c a a g e t g g g t a c c a g c t g c t a g c c t c g a g a c g c g t g a t t c c t t
c g a a g c t t g c a t g g t t g g t t c g t a a c t g c a t c g t c g c t g t g t c c c a g a a c a t g g g c a t c g g c a a g a a c g g g g a c c t g c
c c t g g c c a c g c t c a g g a a t g a a t t c a g a t a t t c c a g a g a a t g a c c a a c c t c t c a g t a g a a g g t a a c a g a a t c t g g t
g a t a t g g g t a a g a a g a c c t g g t t c t c c a t t c c t g a g a g a a t c g a c c t t t a a g g g t a g a a t t a a t t a g t t c t c a g c a g a g
a a c t a a g g a a c c t c c a c a a g g a g c t a t t t t c t t c c a g a a g t c t a g a t g a t g c c t t a a a c t t a c t g a a c a a c c a g a a t t a
g c a a a t a a g t a g a c a t g g t c t g g a t a g t t g g t g g c a g t t c t g t t a t a a g g a a g c c a t g a a t c a c c a g g c c a t c t t a a c
t a t t t g t g a a a g g a t c a t g c a a g a c t t t g a a g t g a c a c g t t t t t c c a g a a t t g a t t t g g a g a a t a t a a c t t c t g c c a g
a a t a c c a g g t g t t c t c t c t g a t g t c c a g g a g a g a a g g c a t t a a g t a c a a a t t t g a a g t a t a t g a g a a g a a t g T T A A
T T A A g g g c a c c a a t a a c t g c c t t a a a a a a t t a c g c c c g c c c t g c c a c t a c t c g a g t a c t g t t g t a a t t c a t t a a g c a t
t c t g c c g a c a t g g a a g c c a t c a c a g a c g g c a t g a t g a a c c t g a a t c g c c a g c g g c a t c a g c a c c t t g t g c c t g c g t a t a
a t a t t t g c c c a t g g t g a a a c g g g g c g a a g a a g t t g t c c a t a t t g g c a c g t t t a a t c a a a c t g g t g a a c t c a c c c a g
g g a t t g g c t g a g a c g a a a a c a t a t t c t c a a t a a a c c t t t a g g g a a t a g g c a g g t t t c a c c g t a a c a c g c c a c a t c t t
g c g a a t a t a t g t g t a g a a a c t g c c g g a a t c g t c g t g g t a t t c a c t c c a g a g c g a t g a a a c g t t c a g t t t g c t a t g g a a
a a c g g t g t a a a a g g g t g a a c a t a t c c c a t a c a c a g c t a c c g c t t t c a t t g c c a t a c g g a a t t c c g g a t g a g a t t c
a t c a g g c g g g c a a g a t g t g a a t a a a g g c g g a t a a a c t t g t g c t a t t t t c t t t a c g g t c t t t a a a a g g c g t a a t c c
a g c t g a a c g g t c t g g t t a t a g g t a c a t t g a g c a a c t g a c t g a a a t g c c t c a a a t g t t c t t a c g a t g c c a t t g g g a t a t a t c a
a c g g t g g t a t a t c c a g t g a t t t t t c t c a t t t a g c t c c t t a g c t c c t g a a a t c t c g a t a c t a a a a a t a c g c c c g g t a g
t g a t c t a t t t c a t t a t g g t g a a a g t t g g a a c c t c t a c g t g c g a t c a a c g t c t a t t t c g c c a a T T A A T T A A G G
C G C G C G c t c t c t t g g c t a g g a g t c a c g t a g a a a g g a c t a c c g a c g a a g g a a c t t g g g t c g c g g t g t g t c g t a t -

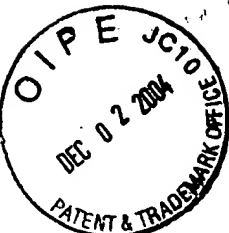
FIG. 32A.



REPLACEMENT
DRAWINGS

a t g g a g g t a g t a a g a c c t c c c t t t a c a a c c t a a g g c g a g g a a c t g c c c t t g c t a t t c c a c a a t g t c g t c t t a c a c c a t t g a g t
c g t c t c c c c t t t g g a a t g g c c c t g g a c c c g g c c a c a a c c t g g c c c g c t a a g g g a g t c c a t t g t c t g t t a t t t c a t g g t c t t
t t t a c a a a c t c a t a t a t t g c t g a g g t t t g a a g g a t g c g a t t a a g g a c c t t g t t a t g a c a a a g c c g c t c c t a c c t g c a a t a t c
a g g g t g a c t g t g t g c a g c t t t g a c g a t g g a g t a g a t t g c c t c c c t g g t t t c c a c c t a t g g t g g a a g g g c t g c c g c g g a g
g g t g a t g a c g g a g a t g a c g g a g a t g a a g g a g g t g a t g g a g a t g a g g g t g a g g a a g g g c a g g a g t g a t g t a a c t t g t a
g g a g a a c g c c c t c a a t c g t a t t a a a g c c g t g t a t t c c c c g c a c t a a a g a a t a a a t c c c a g t a g a c a t c a t g c g t g c t g t t
g g t g t a t t t c t g g c c a t c t g t c t t g t c a c c a t t t c g t c c t c c c a c a t g g g g c a a t t g g g c a t a c c c a t g t t g t c a g t c a c t c
a g c t c c g c g c t c a a c a c c t t c t g c g t t g g a a a c a t t a g c g a c a t t a c c t g g t g a g c a t c a g a c a t g c g a c g g c t t a g
c c t g g c c t c c t t a a a t t c a c c t a a g a a t g g g a g c a a c c a g c a t g c a g g a a a g g a c a a g c a g c g a a a t t c a c g c c c c t
t g g g a g g t g g c g g c a t a t g c a a a g g a t a g c a c t c c c a c t c a c t a c t g g g t a t c a t a t g c t g a c t g t a t a t g c a t g a g g a t a
g c a t a t g c t a c c c g g a t a c a g a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a g a t
t a g g a t a g c c t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a
t a t a g a t t a g g a t a g c c t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t
t c c a g a t a t t t g g g t a g t a t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c t a a t c t c t a t t a g g a t a g c a t a t g c t
a c c g g a t a c a g a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a g g a t a g
c c t a t g c t a c c c a g a t a t a a a t t a g g a t a g c a t a t a c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t a g a t t a
g g a t a g c c t a t g c t a c c c a g a t a t a g a t t a g g a t a g c a t a t g c t a c c c a g a t a t t g g g t a g t a t a t g c t a c c c a t g g c a a c a
t t a g c c c a c c g t g c t c a g c g a c c t c g t g a a t a t g a g g a c c a c a a c c c t g t g c t t g g c g c t c a g g c g a a g t g t g t g t a
a t t g t c c t c c a g a t c g c a g c a a t c g c g c c c t a t c t t g g c c c g c c a c c t a c t t a t g c a g g a t t c c c g g g t g c c a t t a
g t g g t t t g t g g g c a a g t g g t t g a c c g a g t g g t t a g c g g g t t a c a a t c a g c c a a g t t a t a c a c c c t a t t t t a c a g t c c a
a a a c c g a g g g c g g c g t g t g g g g c t g a c g c g t g c c c c a c t c c a c a a t t c a a a a a a a g a g t g g c c a c t t g t c t t g t
t t a t g g g c c c a t t g g c g t g g a g c c c g t t a a t t t t c g g g g t g t t a g a g a c a a c c a g t g g a g t c c g c t g c t g c g g c g t
c c a c t c t c t t c c c c t t g t t a c a a t a g a g t g t a a c a a c a t g g t t c a c c t g t c t t g g t c c c t g c c t g g g a c a c a t c t t a a t a a c c
c c a g t a t c a t a t t g c a c t a g g a t t a t g t g t g c c c a t a g c c a t a a a t t c g t g t g a g a t g g a c a t c c a g t c t t t a c g g c t t g t c c
c c a c c c a t g g g a t t t c t a t g t t a a g a t a t t c a g a a t g t t c a t t c c t a c a c t a g t a t t a t t g c c a a g g g g t t g t g a g g g t
a t a t t g g t g t c a t a g c a a a t g c c a c c a c t g a a c c c c c g t c c a a a t t t a t t c t g g g g c g t c a c c t g a a a c c t g t t t t c g a
g c a c c t c a c a t a c a c c t t a c t g t t c a a a c t c a g c a g t t a t t c t a t t a g c t a a c g a a g g a g a a t g a a g a a g c a g g c g a a g
a t t c a g g a g a g t t c a c t g c c c g c t c t t g a t c t t c a g c c a c t g c c c t t g t a c t a a a t g g t t c a c t a c c c t c g t g g a a t c t g
a c c c c a t g t a a a t a a a a c c g t g a c a g t c a t g g g g t g g g a g a t a t c g c t g t c c t t a g g a c c c t t t a c t a a c c c t a a t t c g a
t a g c a t a t g c t t c c c g t t g g t a a c a t a t g c t a t t g a a t t a g g g t t a g t c t g g a t a g t a t a t a c t a c t a c c c g g g a g c a t a t g
c t a c c c g t t a g g g t t a a c a a g g g g c c t a t a a a c a c t a t t g c t a a t g c c c t c t t a g g g t c c g c t t a t c g g t a g c t a c a
g g c c c c t c t g a t t g a c g t t g g t g a g c t c c c g t a g t c t t c c t g g g c c c t g g g a g g t a c a t g t c c c c c a g c a t t g g t g t a a
g a g c t t a g c c a a g a g t t a c a c a t a a a g g c a a t g t t g t g t g c a g t c c a c a g a c t g c a a a g t c t g c t c c a g g a t g a a g c c
a c t a g t g g t t g g c a a a t g t g c a c a t c c a t t a t a a g g a t g t c a a c t a c a g t c a g a g a a c c c c t t g t g t t g g t c c c c c c c g t
g t c a c a t g t g g a a c a g g g c c c a g t t g g c a a g t t g t a c c a a c c a c t g a a g g a t t a c a t g c a c t g c c c c g a a t a c a a a c
a a a a g c g c t c c t c g t a c a g c g a a g a a g g g c a g a g a t g c c g t a g t c a g g t t a g t t c g t c c g g c g g g G C G G C
C G C A A G G C G C G C C G G A T C C A C A G G A C G G G T G T G G T C G C C A T G A T C G C G T A
G T C G A T A G T G G C T C C A A G T A G C G A A G C G C G A G C A G G A C T G G G C G G C G G C C A A
A G C G G T C G G A C A G T G C T C C G A G A A C G G G T G C G C A T A G A A A T T G C A T C A A C
G C A T A T A G C G C T A G A T C C T T G C T A G A G T C G A G A T C T G T C G A G C C A T G T G A C
C A A A A G G C C A G C A A A A G G C C A G G A A C C G T A A A A A G G C C G C G T T G C T G G C G
T T T T T C C A T A G G C T C C G C C C C C C T G A C G A G C A T C A C A A A A T C G A C G C T C A
A G T C A G A G G T G G C G A A A C C C G A C A G G A C T A T A A A G A T A C C A G G C G T T T C C
C C C T G G A A G C T C C C T C G T G C G C T C T C C T G T T C C G A C C C T G C C G C T T A C C G G
A T A C C T G T C C G C C T T T C T C C C T T C G G A A G C G T G G C G C T T T C T C A T A G C T C A
C G C T G T A G G T A T C T C A G T T C G G T G T A G G T C G T T C G C T C C A A G C T G G G C T G T
G T G C A C G A A C C C C C G T T C A G C C C G A C C G C T G C G C C T T A T C C G G T A A C T A T
C G T C T T G A G T C C A A C C C G G T A A G A C A C G A C T T A T C G C C A C T G G C A G C A G C C
A C T G G T A A C A G G A T T A G C A G A G C G A G G T A T G T A G G C G G T G C T A C A G A G T -

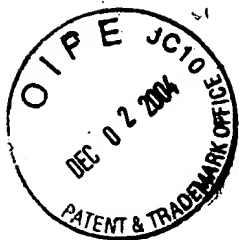
FIG. 32B.



REPLACEMENT
DRAWINGS

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TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTT
GATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGCAAGC
AGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTT
CTACGGGGTCTGACGCTCAGTGGAACGAAAACACGTTAAGGGATTTTG
GTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTATCGGTGTGA
AATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGAAATTGTAAG
CGTTAATAATTGAGAAGAACTCGTCAAGAAGGCGATAGAAGGCGATGCGC
TGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGGAAGCGGTGAGCCCA
TTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCCAACGCTATGTCTTG
ATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATGAATCCAGAAAAGC
GGCCATTTTCCACCATGATATTTCGGCAAGCAGGCATCGCCATGGGTGACGA
CGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTGGCGAACAGTTCCG
CTGGCGCGAGCCCCCTGATGCTCTTCGTCCAGATCATCCTGATCGACAAGAC
CGGCTTCCATCCGAGTACGTGCTCGCTCGATGCGATGTTTCGCTTGGTGGT
CGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCGCCGCATTGCATCA
GCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAGATGACAGGAGATC
CTGCCCCGGCACTTTCGCCCAATAGCAGCCAGTCCCTTCCCGCTTCAGTGAC
AACGTCGAGCACAGCTGCGCAAGGAACGCCCGTCGTGGCCAGCCACGATA
GCCGCGCTGCCTCGTCTTGCAAGTTTCAATCAGGGCACCCGGACAGGTGCGTCT
TGACAAAAAGAACCGGGCGCCCCCTGCGCTGACAGCCGGAACACGGCGGCA
TCAGAGCAGCCGATTGTCTGTTGTGCCAGTCATAGCCGAATAGCCTCTCC
ACCCAAGCGGCCGGGAGAACCTGCGTGCAATCCATCTTGTTCAATCATGCGA
AACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCCCCTGCGCCATCAG
ATCCTTGCGGGCGAGAAAGCCATCCAGTTTACTTTGCAGGGCTTGTCACCC
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CGGTGTTCGCGGAGATCGGCCCGCAAGCGGATTCAGCGGTTCGGGTTCGCGCGCAGCAACAGATGGAGGCG
TCTGGCGCGCACCGGGCCAAAGGAGCGCGTGGTCTCTGGCCACCGTCGGGCTCTTCGCGGACCAACAGGG
CAAGGGTCTGGCAAGCGCGTCTGCTCCCCGGGTGGAGCGGCGGCGCGGGGTGCGGCTCTCTGGAGA
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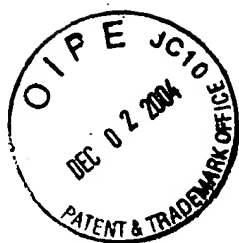
FIG. 32C.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTTCATTGGTTATATAGCATAAA
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CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG
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ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCCGCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
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ATTGACGTCAATGACGGTAAATGGCCCCGCTGGCATTATGCCCAGTACATG
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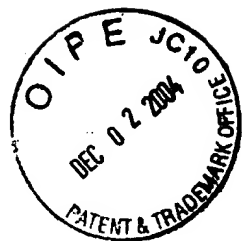
FIG. 33A.



REPLACEMENT
DRAWINGS

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cac tcccactctac tac tgggtatca ta tgc tga ctgt ta tgc a tga gga tagca ta tgc taccggga tacaga ttaggga ta
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a taga ttaggga tagca ta tgc tactccaga ta taga ttaggga tagca ta tgc ta tccaga ta tttgggtagta ta tgc tactccag
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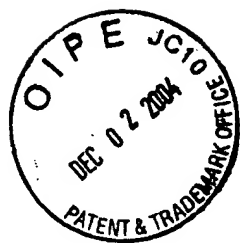
FIG. 33B.



REPLACEMENT
DRAWINGS

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CAGCCCGACCGCTGCGCTTATCCGGTAACTATCGTCTTGAGTCCAACCCG
GTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAG
CAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTA
ACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGC
CAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGCCAAACAAACCA
CCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACGCGCAGAA
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AGGATCTTCACCTAGATCCTTTTATCGGTGTGAAATACCGCACAGATGCGT
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GCAATATCACGGGTAGCCAACGCTATGTCTGATAGCGGTCCGCCACACCC
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CTCTTCGTCCAGATCATCCTGATCGACAAGACCGGCTTCCATCCGAGTACG
TGCTCGCTCGATGCGATGTTTCGCTTGGTGGTGAATGGGCAGGTAGCCGG
ATCAAGCGTATGCAGCCGCCGATTGCATCAGCCATGATGGATACTTTCTC
GGCAGGAGCAAGGTGAGATGACAGGAGATCCTGCCCGGCACTTCGCCCA
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GGCTGGCTTACCGTACCGCGCAGCTGAGGTGGCGAAGGACCGCGCACTTGGTGAATGACCGCAAGCCCGGTG
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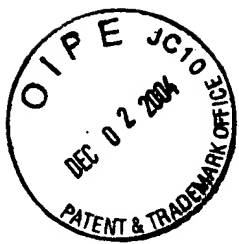
FIG. 33C.



REPLACEMENT
DRAWINGS

TCATTTTTTAACCAATAGGCCGAAATCGGC AAAATCCCTTATAAATCAAAA
GAATAGACCGAGATAGGGTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCC
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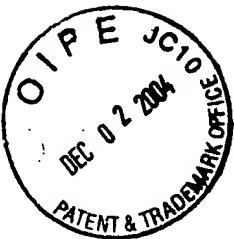
FIG. 33D.



REPLACEMENT
DRAWINGS

tcaacgacaggagacga tca tgcgcacccgttgccaggacccaacgctgcccagaga tgcgcgcgctgcccgtgctgg
aga tggcggacgca tggatgttctgcgaagggttggtttgcgcattcacagtctccgcaagaa tga tggctccaa t
cttggagtggtga tccgttagcgagg tgcgcgggttccattcaggctcgaagg tggcccggtcca tgcaccgagag
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aatggggaaaggcca tccagcc tgcg tgcggaacgcagcaagacgtagcccagcgcgtcgccgcca tgcggcgga
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accgcaagcga caggccga tca tgc tgcgc tccagcgaagcgg tcc tgcgcga aatga accagagcgc tgcggc
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agctgac tgggttgaaggcttcaaggga tgg tgcgc tctccctta tgcgactctgca ttaggaagcagccagta
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gctgaagttctga aagcctga tggga taagtcca tca tgaacggaa gctacacgaagg ttttgcgc tga tgtg
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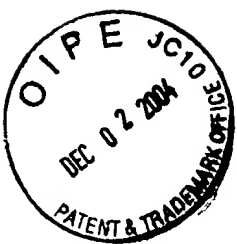
FIG. 34A.



REPLACEMENT
DRAWINGS

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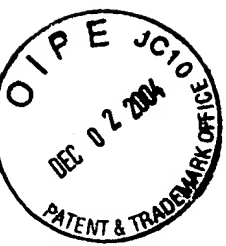
FIG. 34B.



REPLACEMENT
DRAWINGS

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ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCG
CCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATG
ACCTTACGGGACTTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT
ATTACCATGGTGTATGCGGTTTTTGGCAGTACACCAATGGGCGTGGATAGCG
CTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG
TTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACGTG
CGATCGCCCCGCCCCGTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGA
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CGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTG
ATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGGACGGGTGTGGT
CGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGA
CTGGGCGGCGGCCAAAGCGGTCCGACAGTGCTCCGAGAACGGGTGCGCAT
AGAAATTGCATCAACGCATATAGCGCTAGATCCTTGCTAGAGTCGAGATCT
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CTTATCCGGTAACATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC
GCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAG
GCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAA
GAGTTGGTAGCTCTTGATCCGGCAAACAACACCGCTGGTAGCGGTGGTT
TTTTTGT TGTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAA
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CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC
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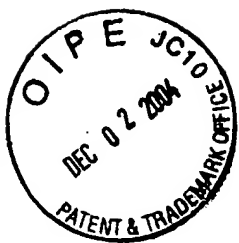
FIG. 35A.



REPLACEMENT
DRAWINGS

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AAATTTTTGTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAA
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FIG. 35B.



REPLACEMENT
DRAWINGS

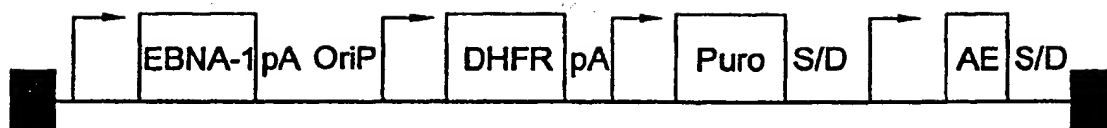
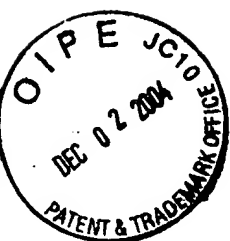


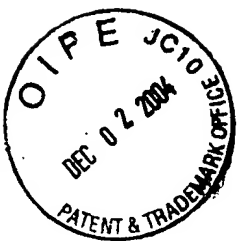
FIG. 36.



REPLACEMENT
DRAWINGS

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA
TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA
CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG
ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT
ATGGAGTTCGCGGTTACATAACTTACGGTAAATGGCCCCGCTGGCTGACCG
CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA
ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA
ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT
ATTGACGTCAATGACGGTAAATGGCCCCGCTGGCATTATGCCCACTACATG
ACCTTACGGGACTTTCCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT
ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG
GTTTGACTCACGGGGATTTCGAAGTCTCCACCCCATGACGTCAATGGGAG
TTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTG
CGATCGCCCGCCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGA
GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG
ACGACCTACTGATTAACGGCCATAGAGGCCCTCTGCAGAACTGTCTTAGTG
ACAACATATCGATTTCCACACATTATACGAGCCGATGTTAATTGTCAACAGC
TCATGCATGACGTCCCGGGAGCAGACAAGCCCGACCATGGCTCGAGTAAT
ACGACTCACTATAGGGCGACAGGTGAGTACTCGCTACCTTAAGgccta tctggccg
tttaaacaga tgtgtataagagacagctctcttaaGGTAGCCTGTCTCTTATACACATCTaga tctctg
ctagagtcgaccaa tctca tgtttgacagctta tca tgcagata tctgagcttgta tgggtgcactctcagtacaa tctgctct
gctggccga tagttaagccagta tctgctccctgcttggtgttggaggctgctgagtagtgccgagcaaaattaaagta
caacaaggcaaggcttgaccgacaa ttgca tgaagaa tctgcttagggtagggcgttttgcgctgcttcgca tgaacggg
ccagata taccgcta tctgaaggac taggggtgttttaggcgccagcggggcttcggttgtagcgggttaggaatccc
ctcagga tagtagtttgc ttttga tagggaggggaaa ttagtctta tgaatacacttgtagcttgcacaa tggtaa
cga tga ttagcaaa tgcctta caaggagagaaaaagcaccgtgca tgcgca ttgggtgaagtaaggtagga tgcg
gcctta ttagggaaggcaacagacaggtctgaca tggatggacgaaccactgaa ttcgca ttgcagaga taattgta ttt
agtgcctagctcga tacaataaacgccatttgacca ttcaccacattgggtgacccccaagctgggtaccagctgc tagc
ctcagagcgcgtga tttcttcgaagcttgta tggttgggttcgctaaactgca tgcgctgctgtgtccagaaacatgggca t
ggcaagaacggggacc tgccttgccaccgtcaggaa tgaattcagata tttccagagaa tgaaccaaacctcttcagt
agaaggtaaacagaa tctgggtat tgggtgaagaagacc tgggtctcca ttcctgaagaagaa tgaaccttaaaagggtaga
attaat tagttctcagagagaa tcaaggaaacctccacaaaggagctca tttctttccagaagctaga tga tcttaaaa
cttactgaacaaacagaa ttacaaataaagtagaca tgggtcggatagttggtagcagttctgtttaaaaggaaagca tga
atcaccagggcctcttaaac ttttgtagaaggatca tgaagactttgaagtgacagctttttccagaaattga tttgg
agaaa taaactctgccagaa taccaggtgttctctc tga tggtaggaagaaaggca ttaagtacaaatttgaagt
ata tgaagaagaa tgTTAA TTAAGggaccaa taactgccttaaaaaaattacgccccgccc tgcactca tgcagt
actgttgtaattca ttaagca tctgcgaca tggaaagca tcaacagacggca tga tgaacctgaa tgcacagcggca tca
gcaacctgtgcctgcgtataa tttgcccaggtgaanaacgggggcaagaagttgtcca tttggccacgtttaaa tca
aaactgggtgaactcaccagggatggctgagacgaanaaata tttc tcaaa taaacctttagggaataggccaggtttt
caccgtaacagccaca tcttgcaata ta tgtgtagaac tgcggaaa tctgctgggtat tca tccagagcga tgaan
acgtttcagtttgctca tggaaaacgggtgaacaaagggtgaacacta tccca taccagagctacagctcttca tggca ta
cggaa ttcgga tgaac tca tgaaggcgaagaa tggaa taaaggcggga taaacttggtctta ttttctttacgggt
ctttaaaaggcgttaa taccagctgaacgggtcgtttataggta tgaac tgaactgaan tgcctcaaaa tgttctt
acga tgcctatggga ta tcaacgggtggta taccagtgatttttctcca ttttagcttccctagctcc tgaana tctcga ta
actcaaaaaacgccccggtagtgatcttattca tta tggtagaagttgaacctctacgtgcgca tcaacgtctca tttcgc
ccaaa TTAATTAAGGCGCGCCgctctcctggctagggtcacgtagaaggaactaccgacgaaggaaactt
gggtcggcgggtgtgttgcgtata tggaggtagtaagacctccctttacaacctaaaggcaggaactgccc tttgcta tccaca
atgtcgtcttaacacattgagtcgtctccctttggaa tggcccc tggacccggcccaaacctggcccgctaaaggagtc
cattgtctgttattca tggctttttacaac tca tatta tttgtgaggtttgaagga tgcga ttaaggacctgttta tgaac-

FIG. 37A.



REPLACEMENT
DRAWINGS

agcccgctcc tacc tgc aa ta tcagggtgac tgtgtgcagctttgacga tggagtaga tttgcctccc tgggttccacctatg
gtggaaaggggtgccgcggaggggtga tgacggaga tgacggaga tgaaggaggtaga tggaga tgaaggtagaggaa
ggcaggagtaga tgaacttgttggagagcgcc tcaa tctgtat taaagccgtgtat tccccgcac taaagaa taaa tccc
cagtagaca tca tgcgtgctgttgggtgtat tctggccatctgtctgttaccat tttcgtctcccaaca tggggcaat tggg
cataccat tgtgttcacgtcactcagctccgcgtcaacac tctcgtgttggaaaaca ttagcgaca tttacc tggtagc
aatcagaca tgcgcaggctttagcctggcctcc ttaaat tacc taaagaa tgggagcaaccagca tgcaggaaaggaca
agcagcgaaaa ttcacgcccccttgggaggtggcggga ta tgc aaagga tagcactccac tctac tacc tgggtatca t
gctgac tgtat tgc tgaaggatagca ta tgc taccggatagca ttagga tagca ta tacc taccagat taga ttagga t
agca ta tgc taccagat taga ttagga tagcctat tgc taccagat taaat ttagga tagca ta tacc taccagat taga
ttagga tagca ta tgc taccagat taga ttagga tagcctat tgc taccagat taga ttagga tagca ta tgc taccag
at taga ttagga tagca ta tgc taccagat tttgggtagta ta tgc taccagat taaat ttagga tagca ta tacc tacc
aatctctat ttagga tagca ta tgc taccggatagca ttagga tagca ta tacc taccagat taga ttagga tagca ta t
ctaccagat taga ttagga tagcctat tgc taccagat taaat ttagga tagca ta tacc taccagat taga ttagga ta
gca ta tgc taccagat taga ttagga tagcctat tgc taccagat taga ttagga tagca ta tgc taccagat tttgg
gtagta ta tgc taccat tggcaaca ttagccaccg tgc tctcagcgacctcgtgaa ta ttaggaccaacaacctgtgtct
ggcgtcaggcgcaagtgtgtgtat tgtctccagatcgcagcaaa tgcgcacctat tttggcccgccac tacc tctatg
caggat tccccgggggtgcaat tagtgggtttgtgggcaagtgggttgaccgagtggttagcgggttaca ttagccaa
gttat taccaccttat tttacgtccaaacccgaggcggtgtgtgggggtgacgctgccccac tccacaat ttc aa
aaaaagagtggccactgtctttgtttat tgggccccat tggcgtggagccccgtttaa tttcgggggtgttagagacaacca
gtggagtcgcgtgtcgggtccactctcttcccc tgttaca aa tagagtgtaacaaca tgggttacc tgtcttgg tccc
tgc tgggacacatctaa taacccagat tca ta tgc acttagga tta tgtgttgccta tagcca taaat tctgtgtga tgg
acatccagctttacggcttgtccccccccat tggat tctat tgttaaga ta ttcagaa tgtttca tctc tacc tagtat ttt
gccc aaaggggtttgtgaggggtat ta tgggtgtca tagcacaat tgcacacctgaacccccgtccaaa tttat tctggggg
cgtcacc tgaaccttgttttcagacacctcaca tacccttactgttccaaactcagcagttat tctat ttagc taaacgaagg
agaa tgaagaagcaggcgaaat ttaggaaggttca tgcgcgtcttga tctcagccactgccc tttgtgactaaaatg
gttca tacc tctgtggaa tcttga cccatgtaaa taaacccgtgacagctca tgggggtgggagat tgc tgttctttag
gaccttttacc taaacctaat tca tagca ta tgc tccccgttgggtaa ca ta tgc ta tgaat tagggttagtctgga tagta t
atacc tacc tgggaagca ta tgc taccctttaggg ttaacaaagggggctt taaacacat tgc taa tggcctcttga
ggctccgttat tgg tagc taccagggcccc tga ttagcgttgggttagcc tccgttagcttcttgggcccc tgggaggt
acatgtccccagca tttgtgtgaagactttagc aaaggttacaca taaaggcaatgttgtgttgcagtccacagactgca
aagctgtctcagga tgaagccactcaggttggcaaa tgtgcaca tcca tttat taaagga tgtcaac taccgtcagagaac
cccttgtgtttgg tccccccccgtgtcaca tgtggaaacagggccaggttggcaagtgttacc aaactgaaggga tta
atgc actgccccgaa taca aaacaaagcgtctcgtaccagcgaagggggcagagatgcccgtagtccaggttagtt
cgtccggcgggg GCGGCCGCAAGGCGCGCCGGATCCACAGGACGGGTGTGGTC
GCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGAC
TGGGCGGCGGCCAAAGCGGTGCGACAGTGCTCCGAGAACGGGTGCGCATA
GAAATTGCATCAACGCATATAGCGCTAGATCCTTGCTAGAGTCGAGATCTG
TCGAGCCATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGG
CCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACA
AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAGA
TACCAGGCGTTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACC
CTGCCGCTTACCGGATACCTGTCCGCCTTCTCCCTTCCGGGAAGCGTGGCG
CTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGTTTCGCT
CCAAGCTGGGCTGTGTGCACGAACCCCCGTTTACGCCGACCGCTGCGCCT
TATCCGGTAACATATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGC
CACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGC
GGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAG
GACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAG
AGTTGGTAGCTCTTGATCCGGCAAAACAAACCACCGCTGGTAGCGGTGGTT-

FIG. 37B.



REPLACEMENT
DRAWINGS

TTTTTGTGGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAA
GATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAACTCA
CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC
CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCAT
CAGGAAATTGTAAGCGTTAATAATTGAGAAGAACTCGTCAAGAAGGCGAT
AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGG
AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC
AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG
AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG
CCATGGGTACGACGAGATCCTCGCCGTGGGCGATGCTCGCCTTGAGCCTG
GCGAACAGTTTCGGCTGGCGCGAGCCCTGATGCTCTTCGTCCAGATCATCC
TGATGGACAAGACCGGCTTCCATCCGAGTACGTGCTCGCTCGATGCGATGT
TTCGCTTGGTGGTTCGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCG
CCGCATTGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG
ATGACAGGAGATCCTGCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTC
CCGCTTCAGTGACAACGTGAGCACAGCTGCGCAAGGAACGCCCGTCGTG
GCCAGCCACGATAGCCGCGCTGCCTCGTCTTGCAAGTTCATTACGGGCACCG
GACAGGTCGGTCTTGACAAAAAGAACCGGGCGCCCTGCGCTGACAGCCG
GAACACGGCGGCATCAGAGCAGCCGATTGTCTGTTGTGCCAGTCATAGCC
GAATAGCCTCTCCACCCAAGCGGCCGAGAACCTGCGTGCAATCCATCTTG
TTCAATCATGCGAAACGATCCTCATCTGTCTCTTGATCAGAGCTTGATCC
CCTGCGCCATCAGATCCTTGCGCGCGAGAAAGCCATCCAGTTTACTTTGCA
GGGCTTGTCAACCTTACCAGATAAAAGTGCTCATCATTGGAAAAttcaattcgt
cgacctcgaatttcaccgggtaggggagggcgttttcccaaggcagtcaggagcagcgcttttagcagccccgctgggc
acttggcgctacacaaagtggcctctggcctcgacacattccacatccaccggtaggcgccaaccggctccgttcttggg
ggcccttcgcgcccaccttctactctcccttagtcagggaagtccccccgccccgancicgcgtcgtgcaggacgtg
acaaaaggaaatagcagctctac tagctctgtgcagatggacaagcaccgtgagcaatggagcgggtaggcctttggg
gcagcggccaatagcagctttgctctctgccttctgggctcagaggctggnaagggtgggtccgggggaggggtcag
gggagggtcagggggggggggggggcgccgaaggctctcgggagggccggcattctgcagcttcaaaagcgcagct
ctggcgctgttctctcttcccaatctcggggctttcgacctgcatccatctagatctcagcagctgaagcttaccatga
ccgagtacaagccacgggtgcgcttcgccaccgcgacgctccccggggcgtagcaccctcgccgcgcttcg
ccgactaccccgccacgcgcacacgctgacccggacgcgcacatcgagcgggtaccgagctgaagaactcttctt
cagcgctcgggtcgacatcggaagggtgggtcgggagcagcgccgctggcggttggaccacgccc
gagagcgtcgaagcgggggggggtgttcggcgagatcgggccgcgcatggcgagttgagcgggtccggctggccgc
gcagcaacagatggaaaggctcttggcgccgcacggggcccaaggagcccgctgggttcttggccccagctcgggc
gtcttcggccgacacacagggaagggtctggcaagcggctcgtgctccccggagtggaaggcggcgagcgcgccc
gggtgcccgccttcttggagacctccgcgccccgaacctcccccttctacgagcggctcggcttaccgtacccgcgac
gtcaggtgccccgaaggacgcgacacctgggtgcatgaccgcaagccgggtgcctgacgccccccccagacccgca
gcgcccgaaccgaaggagcgcagaccccatgcatcgatggcgactgggcaggtaagtaacaggttagcGGCCGC
TAACCTGGTTGCTGACTAATTGAGATGCATGCTTTGCATACTTCTGCCTGCT
GGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACAGCTGG
TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT
GTTAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAG
GCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGG
GTTGAGTGTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGA
CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCAC

FIG. 37C.